

# 2010 DESIGN ENGINEERING KITS

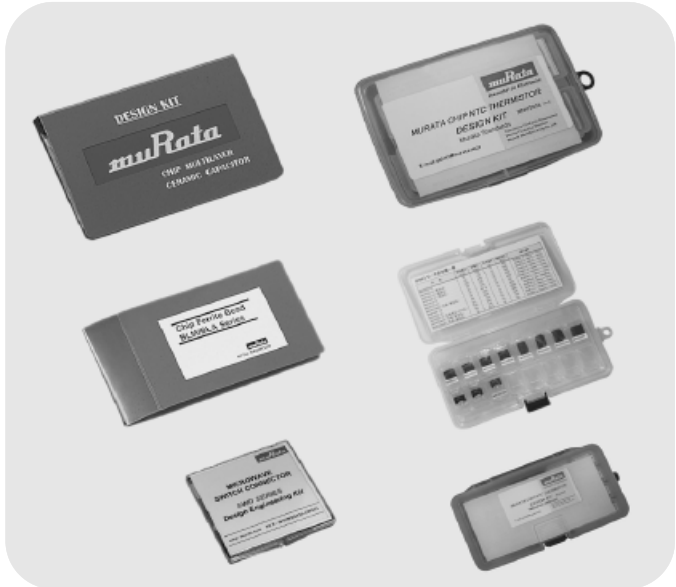
CATALOG NO. G-06-G



Please visit our website:  
[www.murata.com](http://www.murata.com)

Murata offers a complete selection of Design Engineering Kits specifically intended to aid the design engineer in prototyping applications. Each kit contains a wide selection of commonly used values and sizes that meet a variety of circuit design requirements.

For additional information on the kits contained in this catalog, please contact your local Murata Sales Representative. Visit “contact us” at [www.murata-northamerica.com](http://www.murata-northamerica.com) for representative locations.



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# DESIGN ENGINEERING KITS

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Blue Binder with Sleeves



B. 8x4x1  
Blue Binder with Sleeves



C. Soft Plastic Case



D. 4-3/4x4-3/4x3/4  
Hard Plastic Box

| Kit Part Number                                                                     | Size      | Description                         | Package Style                     | Style Code | Page |
|-------------------------------------------------------------------------------------|-----------|-------------------------------------|-----------------------------------|------------|------|
| <b>General Ceramic Chip Capacitors<sup>1</sup></b>                                  |           |                                     |                                   |            |      |
| GRM02-KIT-----E                                                                     | 01005     | (6.3 to 16 VDC)                     | 7-3/4x5 blue binder with sleeves  | A          | 5    |
| GRM03-KIT-----E                                                                     | 0201      | (4 to 25 VDC)                       | 7-3/4x5 blue binder with sleeves  | A          | 5    |
| GJM03-KIT-----E                                                                     | 0201      | (6.3 to 25 VDC)                     | 7-3/4x5 blue binder with sleeves  | A          | 6    |
| GJM03-KIT-TTOL---                                                                   | 0201      | (6.3 to 25 VDC)                     | 7-3/4x5 blue binder with sleeves  | A          | 6    |
| GJM15-KIT-----E                                                                     | 0402      | (50 VDC)                            | 7-3/4x5 blue binder with sleeves  | A          | 7    |
| GJM15-KIT-TTOL---                                                                   | 0402      | (50 VDC)                            | 7-3/4x5 blue binder with sleeves  | A          | 7    |
| GRM15-KIT-----E                                                                     | 0402      | (6.3 to 50 VDC)                     | 7-3/4x5 blue binder with sleeves  | A          | 8    |
| GRM18-KIT-----E                                                                     | 0603      | (6.3 to 50 VDC)                     | 7-3/4x5 blue binder with sleeves  | A          | 9    |
| GRM---KIT-HICAP--E                                                                  | 0402-1210 | (6.3 to 50 VDC) 1 - 100μF           | 7-3/4x5 blue binder with sleeves  | A          | 10   |
| GRM---KIT-TCHIK--E                                                                  | 0402-1210 | (6.3 to 50 VDC) 150pF - 22μF        | 7-3/4x5 blue binder with sleeves  | A          | 11   |
| GRM---KIT-TC-----E                                                                  | 0402-1206 | (25 to 50 VDC) C0G/U2J              | 7-3/4x5 blue binder with sleeves  | A          | 12   |
| <b>ASCap Hi-Frequency Ceramic Chip Capacitors<sup>1</sup></b>                       |           |                                     |                                   |            |      |
| GJM03-KIT-----E                                                                     | 0201      | (6.3 to 25 VDC)                     | 7-3/4x5 blue binder with sleeves  | A          | 6    |
| GJM03-KIT-TTOL---                                                                   | 0201      | (6.3 to 25 VDC)                     | 7-3/4x5 blue binder with sleeves  | A          | 6    |
| GJM15-KIT-----E                                                                     | 0402      | (50 VDC)                            | 7-3/4x5 blue binder with sleeves  | A          | 7    |
| GJM15-KIT-TTOL---                                                                   | 0402      | (50 VDC)                            | 7-3/4x5 blue binder with sleeves  | A          | 7    |
| GQM18-HIQ0603KIT-E                                                                  | 0603      | Hi-Q (50 to 100 VDC)                | 7-3/4x5 blue binder with sleeves  | A          | 13   |
| GQM18-HIQ250VKIT-E                                                                  | 0603      | Hi-Q (250 VDC)                      | 7-3/4x5 blue binder with sleeves  | A          | 13   |
| GQM21-HIQ0805KIT-E                                                                  | 0805      | Hi-Q (50 to 100 VDC)                | 7-3/4x5 blue binder with sleeves  | A          | 14   |
| GQM21-HIQ250VKIT-E                                                                  | 0805      | Hi-Q (250 VDC)                      | 7-3/4x5 blue binder with sleeves  | A          | 14   |
| ERB18-HIQ0603KIT-E                                                                  | 0603      | Hi-Q (250 VDC)                      | 7-3/4x5 blue binder with sleeves  | A          | 15   |
| ERB21-HIQ0805KIT-E                                                                  | 0805      | Hi-Q (250 VDC)                      | 7-3/4x5 blue binder with sleeves  | A          | 15   |
| ERB32-HIQ1210KIT-E                                                                  | 1210      | Hi-Q (500 VDC)                      | 7-3/4x5 blue binder with sleeves  | A          | 15   |
| MA19-HIQ0505KIT-E                                                                   | 0505      | Hi-Q (150 VDC)                      | 7-3/4x5 blue binder with sleeves  | A          | 16   |
| MA29-HIQ1111KIT-E                                                                   | 1111      | Hi-Q (50 to 500 VDC)                | 7-3/4x5 blue binder with sleeves  | A          | 16   |
| MA59-HIQ0505KIT-E                                                                   | 0505      | Hi-Q (150 VDC)                      | 7-3/4x5 blue binder with sleeves  | A          | 17   |
| MA69-HIQ1111KIT-E                                                                   | 1111      | Hi-Q (50 to 500 VDC)                | 7-3/4x5 blue binder with sleeves  | A          | 17   |
| <b>Low Inductance Capacitors<sup>1</sup></b>                                        |           |                                     |                                   |            |      |
| LL-LOWESL-KIT-B--E                                                                  | 0402-1206 | Low ESL (4 to 50 VDC)               | 7-3/4x5 blue binder with sleeves  | A          | 18   |
| <b>Capacitor Arrays<sup>1</sup></b>                                                 |           |                                     |                                   |            |      |
| GNM-CARRAY-KIT-B-E                                                                  | 0504-1206 | Cap Array (10 to 50 VDC)            | 7-3/4x5 blue binder with sleeves  | A          | 19   |
| <b>Automotive Grade Ceramic Chip Capacitors<sup>1</sup></b>                         |           |                                     |                                   |            |      |
| GCM15-KIT-----A                                                                     | 0402      | (16 to 50 VDC)                      | 7-3/4x5 blue binder with sleeves  | A          | 20   |
| GCM---KIT-C0G-----A                                                                 | 0603-1206 | (50 VDC) C0G, 1pF - .022μF          | 7-3/4x5 blue binder with sleeves  | A          | 21   |
| GCM---KIT-X7R-----A                                                                 | 0603-1206 | (10 to 50 VDC) 1000pF - 22μF        | 7-3/4x5 blue binder with sleeves  | A          | 22   |
| GCM---KIT-100V-----A                                                                | 0603-1206 | (100 VDC) C0G, X7R 10pF - .22μF     | 7-3/4x5 blue binder with sleeves  | A          | 23   |
| <b>Radial Leaded Monolithic Ceramic Chip Capacitors (25 to 630 VDC)<sup>2</sup></b> |           |                                     |                                   |            |      |
| RPE 100 VDC & less Series                                                           |           |                                     | 7-3/4x5 green binder with sleeves | A          | 24   |
| RDE 25, 50, 100, 250 & 630 VDC Series                                               |           |                                     | 7-3/4x5 green binder with sleeves | A          | 24   |
| <b>Medium Voltage Ceramic Chip Capacitors (250 VDC to 3.15 KV)<sup>2</sup></b>      |           |                                     |                                   |            |      |
| U2J, 250V, 630V, 1KV, 2KV, 3.15KV Series                                            |           |                                     |                                   |            | 24   |
| X7R, 250V, 630V Series                                                              |           |                                     |                                   |            | 24   |
| GR4, X7R, 2KV Series                                                                |           |                                     |                                   |            | 24   |
| <b>Radial Leaded Medium Voltage Disc Capacitor (500 VDC to 6.3 KV)<sup>2</sup></b>  |           |                                     |                                   |            |      |
| DE Series                                                                           |           | General Use                         | Custom Packaging                  |            | 24   |
| <b>Monolithic Ceramic Chip Safety Capacitor (250 VAC)<sup>2</sup></b>               |           |                                     |                                   |            |      |
| GD Series                                                                           | 1808-2220 | Class Y3                            | Custom Packaging                  |            | 25   |
| GF Series                                                                           | 1808-2220 | Class Y2, X1/Y2                     | Custom Packaging                  |            | 25   |
| <b>Radial Leaded Disc Safety Capacitor (250 VAC)<sup>2</sup></b>                    |           |                                     |                                   |            |      |
| KX Series                                                                           |           | Reinforced Insulation, Class X1, Y1 | Custom Packaging                  |            | 25   |
| KY Series                                                                           |           | Basic Insulation, Class X1, Y2      | Custom Packaging                  |            | 25   |

<sup>1</sup> For Ceramic Chip Capacitors, dashes are part of the part number and must be included when placing an order.

<sup>2</sup> For availability, please check with your Murata Sales Contact. Part Numbers in kits depend on application.

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| Kit Part Number                             | Size                   | Description                            | Package Style                  | Style Code | Page |
|---------------------------------------------|------------------------|----------------------------------------|--------------------------------|------------|------|
| <b>Microwave Connector Engineering Kits</b> |                        |                                        |                                |            |      |
| M1KMM8130-SWF01                             | 2.5x2.5x1.4mm          | SWF Series Switch Connector            | Hard plastic box               | D          | 27   |
| M1KMM8430-SWD01                             | 3.3x3.0x1.75mm         | SWD Series Switch Connector            | Hard plastic box               | D          | 26   |
| M1KMM4829-HSC01                             | 2.0x2.0x0.6mm          | HSC Series Ultra Small Cable Connector | Hard plastic box               | D          | 26   |
| <b>EMI Filter Kits</b>                      |                        |                                        |                                |            |      |
| EKEMBL03D                                   | 01005, 0201            | Surface Mount EMI Filters              | 8x4x1 blue binder with sleeves | B          | 27   |
| EKEMBL15K                                   | 0402                   | Surface Mount EMI Filters              | 8x4x1 blue binder with sleeves | B          | 27   |
| EKEMBL18G                                   | 0603                   | Surface Mount EMI Filters              | 8x4x1 blue binder with sleeves | B          | 27   |
| EKEMBL8GA                                   | 0603                   | Surface Mount EMI Filters              | 8x4x1 blue binder with sleeves | B          | 28   |
| EKEMBL21D                                   | 0805, 1206, 1806       | Surface Mount EMI Filters              | 8x4x1 blue binder with sleeves | B          | 28   |
| EKEMNFMCB                                   | 0603, 0805             | Surface Mount EMI Filters              | 8x4x1 blue binder with sleeves | B          | 28   |
| EKEMFA31D                                   | 1206                   | Surface Mount EMI Filters              | 8x4x1 blue binder with sleeves | B          | 28   |
| EKEMFL18E                                   | 0603, 0805, 1206       | Surface Mount EMI Filters              | 8x4x1 blue binder with sleeves | B          | 29   |
| EKEMFA20F                                   | 0603, 0805             | Surface Mount EMI Filters              | 8x4x1 blue binder with sleeves | B          | 29   |
| EKEMNFMPPH                                  | 0603, 0805, 1206, 1806 | Surface Mount EMI Filters              | 8x4x1 blue binder with sleeves | B          | 29   |
| EKEPBNX0A                                   |                        | Block Type EMI Filters                 | Soft plastic case              | C          | 29   |
| EXEPBLCKA                                   |                        | Block Type EMI Filters                 | Soft plastic case              | C          | 29   |
| EKEMDL21J                                   | 0805, 1206             | Surface Mount EMI Filters              | 8x4x1 blue binder with sleeves | B          | 29   |
| EKEMDCC5B                                   | 5.0x5.0mm, 5.0x3.6mm   | Surface Mount EMI Filters              | 8x4x1 blue binder with sleeves | B          | 29   |
| <b>Chip Inductor Kits</b>                   |                        |                                        |                                |            |      |
| EKLMQ15SC                                   | 0402                   | Surface Mount Inductors                | 8x4x1 blue binder with sleeves | B          | 30   |
| EKLMQG18B                                   | 0603                   | Surface Mount Inductors                | 8x4x1 blue binder with sleeves | B          | 30   |
| EKLMQP02C                                   | 01005                  | Surface Mount Inductors                | 8x4x1 blue binder with sleeves | B          | 30   |
| EKLMQP03K                                   | 0201                   | Surface Mount Inductors                | 8x4x1 blue binder with sleeves | B          | 31   |
| EKLMQP15B                                   | 0402                   | Surface Mount Inductors                | 8x4x1 blue binder with sleeves | B          | 31   |
| EKLMQW04C                                   | 03015                  | Surface Mount Inductors                | 8x4x1 blue binder with sleeves | B          | 31   |
| EKLMQW15H                                   | 0402                   | Surface Mount Inductors                | 8x4x1 blue binder with sleeves | B          | 32   |
| EKLMQ18GB                                   | 0603                   | Surface Mount Inductors                | 8x4x1 blue binder with sleeves | B          | 32   |
| EKLMQ18JC                                   | 0603                   | Surface Mount Inductors                | 8x4x1 blue binder with sleeves | B          | 32   |
| EKLMQW21A                                   | 0805                   | Surface Mount Inductors                | 8x4x1 blue binder with sleeves | B          | 33   |
| EKLMQW2BB                                   | 0805                   | Surface Mount Inductors                | 8x4x1 blue binder with sleeves | B          | 33   |
| EKLMQM18B                                   | 0603                   | Surface Mount Inductors                | 8x4x1 blue binder with sleeves | B          | 33   |
| EKLM21NB                                    | 0805                   | Surface Mount Inductors                | 8x4x1 blue binder with sleeves | B          | 33   |
| EKLMH32MC                                   | 1210                   | Surface Mount Inductors                | 8x4x1 blue binder with sleeves | B          | 33   |
| EKLMH43MB                                   | 1812                   | Surface Mount Inductors                | 8x4x1 blue binder with sleeves | B          | 34   |
| EKLMQM2PD                                   | 0805, 0806, 1008, 1206 | Surface Mount Inductors                | 8x4x1 blue binder with sleeves | B          | 34   |
| EKLMH2MCF                                   | 0806                   | Surface Mount Inductors                | 8x4x1 blue binder with sleeves | B          | 34   |
| EKLMQH3PC                                   | 1210, 1212             | Surface Mount Inductors                | 8x4x1 blue binder with sleeves | B          | 35   |
| EKLM18FB                                    | 0603, 0805             | Surface Mount Inductors                | 8x4x1 blue binder with sleeves | B          | 35   |
| EKLMH32CC                                   | 1210                   | Surface Mount Inductors                | 8x4x1 blue binder with sleeves | B          | 35   |
| EKLMN43CC                                   | 1812                   | Surface Mount Inductors                | 8x4x1 blue binder with sleeves | B          | 35   |
| EKLMQH4PA                                   | 4.0x4.0mm              | Surface Mount Inductors                | 8x4x1 blue binder with sleeves | B          | 35   |
| EKLMQH5PA                                   | 5.0x5.0mm              | Surface Mount Inductors                | 8x4x1 blue binder with sleeves | B          | 35   |
| <b>Chip Thermistor Kits</b>                 |                        |                                        |                                |            |      |
| NCKIT001                                    | 0201, 0402             | Chip Thermistors                       | Soft plastic case              | C          | 36   |
| NCKIT002                                    | 0603                   | Chip Thermistors                       | Soft plastic case              | C          | 36   |
| NCKIT003                                    | 0201, 0402, 0603       | Chip Thermistors                       | Soft plastic case              | C          | 36   |
| NCKIT0S1                                    | 0402, 0603             | Chip Thermistors                       | Soft plastic case              | C          | 36   |
| PRKIT001                                    | 0402, 0603, 0805       | Chip Thermistors                       | Soft plastic case              | C          | 37   |
| PRKIT0S1                                    | 0603, 0805             | Chip Thermistors                       | Soft plastic case              | C          | 37   |
| NCPRKIT001                                  | 0402, 0603, 0805       | Chip Thermistors                       | Soft plastic case              | C          | 37   |

## GENERAL CERAMIC CHIP CAPACITORS

## 01005 (6.3 to 16 VDC)

- ULTRA Small chip size, 01005 (L: 0.4 x W: 0.2 x T: 0.2mm).
- Temperature characteristics: C0G, X7R and X5R
- No polarity
- GRM022 series is suited to only reflow soldering.
- GRM series is offered with a Ni barrier termination plated with Matte Tin (Sn), and is RoHS compliant.
- Stringent dimensional tolerances allow highly reliable, high-speed automatic chip placement on PCBs.
- GRM022 series is suited to miniature microwave module, portable equipment and high-frequency circuit.

## GRM02-KIT-----E

| No. | Description            | Murata Global P/N | Qty. |
|-----|------------------------|-------------------|------|
| 1   | 01005/C0G/0.20pF/16V   | GRM0225C1CR20BD05 | 20   |
| 2   | 01005/C0G/0.30pF/16V   | GRM0225C1CR30BD05 | 20   |
| 3   | 01005/C0G/0.40pF/16V   | GRM0225C1CR40BD05 | 20   |
| 4   | 01005/C0G/0.50pF/16V   | GRM0225C1CR50BD05 | 20   |
| 5   | 01005/C0G/0.60pF/16V   | GRM0225C1CR60BD05 | 20   |
| 6   | 01005/C0G/0.70pF/16V   | GRM0225C1CR70BD05 | 20   |
| 7   | 01005/C0G/0.80pF/16V   | GRM0225C1CR80BD05 | 20   |
| 8   | 01005/C0G/0.90pF/16V   | GRM0225C1CR90BD05 | 20   |
| 9   | 01005/C0G/1.0pF/16V    | GRM0225C1C1R0CD05 | 20   |
| 10  | 01005/C0G/1.2pF/16V    | GRM0225C1C1R2CD05 | 20   |
| 11  | 01005/C0G/1.5pF/16V    | GRM0225C1C1R5CD05 | 20   |
| 12  | 01005/C0G/1.8pF/16V    | GRM0225C1C1R8CD05 | 20   |
| 13  | 01005/C0G/2.0pF/16V    | GRM0225C1C2R0CD05 | 20   |
| 14  | 01005/C0G/2.2pF/16V    | GRM0225C1C2R2CD05 | 20   |
| 15  | 01005/C0G/2.7pF/16V    | GRM0225C1C2R7CD05 | 20   |
| 16  | 01005/C0G/3.0pF/16V    | GRM0225C1C3R0CD05 | 20   |
| 17  | 01005/C0G/3.3pF/16V    | GRM0225C1C3R3CD05 | 20   |
| 18  | 01005/C0G/3.9pF/16V    | GRM0225C1C3R9CD05 | 20   |
| 19  | 01005/C0G/4.0pF/16V    | GRM0225C1C4R0CD05 | 20   |
| 20  | 01005/C0G/4.7pF/16V    | GRM0225C1C4R7CD05 | 20   |
| 21  | 01005/C0G/5.0pF/16V    | GRM0225C1C5R0CD05 | 20   |
| 22  | 01005/C0G/5.6pF/16V    | GRM0225C1C5R6DD05 | 20   |
| 23  | 01005/C0G/6.0pF/16V    | GRM0225C1C6R0DD05 | 20   |
| 24  | 01005/C0G/6.8pF/16V    | GRM0225C1C6R8DD05 | 20   |
| 25  | 01005/C0G/7.0pF/16V    | GRM0225C1C7R0DD05 | 20   |
| 26  | 01005/C0G/8.0pF/16V    | GRM0225C1C8R0DD05 | 20   |
| 27  | 01005/C0G/8.2pF/16V    | GRM0225C1C8R2DD05 | 20   |
| 28  | 01005/C0G/9.0pF/16V    | GRM0225C1C9R0DD05 | 20   |
| 29  | 01005/C0G/10pF/16V     | GRM0225C1C100JD05 | 20   |
| 30  | 01005/C0G/12pF/16V     | GRM0225C1C120JD05 | 20   |
| 31  | 01005/C0G/15pF/16V     | GRM0225C1C150JD05 | 20   |
| 32  | 01005/C0G/18pF/16V     | GRM0225C1C180JD05 | 20   |
| 33  | 01005/C0G/22pF/16V     | GRM0225C1C220JD05 | 20   |
| 34  | 01005/C0G/27pF/16V     | GRM0225C1C270JD05 | 20   |
| 35  | 01005/C0G/33pF/16V     | GRM0225C1C330JD05 | 20   |
| 36  | 01005/C0G/39pF/16V     | GRM0225C1C390JD05 | 20   |
| 37  | 01005/C0G/47pF/16V     | GRM0225C1C470JD05 | 20   |
| 38  | 01005/C0G/56pF/6.3V    | GRM0225C0J560JD05 | 20   |
| 39  | 01005/C0G/68pF/6.3V    | GRM0225C0J680JD05 | 20   |
| 40  | 01005/C0G/82pF/6.3V    | GRM0225C0J820JD05 | 20   |
| 41  | 01005/C0G/100pF/6.3V   | GRM0225C0J101JD05 | 20   |
| 42  | 01005/X7R/101pF/10V    | GRM022R71A101KA01 | 20   |
| 43  | 01005/X7R/151pF/10V    | GRM022R71A151KA01 | 20   |
| 44  | 01005/X7R/221pF/10V    | GRM022R71A221KA01 | 20   |
| 45  | 01005/X7R/331pF/10V    | GRM022R71A331KA01 | 20   |
| 46  | 01005/X7R/471pF/10V    | GRM022R71A471KA01 | 20   |
| 47  | 01005/X5R/680pF/6.3V   | GRM022R60J681KE19 | 20   |
| 48  | 01005/X5R/1000pF/6.3V  | GRM022R60J102KE19 | 20   |
| 49  | 01005/X5R/1500pF/6.3V  | GRM022R60J152KE19 | 20   |
| 50  | 01005/X5R/2200pF/6.3V  | GRM022R60J222KE19 | 20   |
| 51  | 01005/X5R/3300pF/6.3V  | GRM022R60J332KE19 | 20   |
| 52  | 01005/X5R/4700pF/6.3V  | GRM022R60J472KE19 | 20   |
| 53  | 01005/X5R/6800pF/6.3V  | GRM022R60J682KE19 | 20   |
| 54  | 01005/X5R/10000pF/6.3V | GRM022R60J103KE19 | 20   |

## 0201 (4 to 25 VDC)

- VERY Small chip size, 0201 (L: 0.6 x W: 0.3 x T: 0.3mm).
- Temperature characteristics: C0G, U2J, X7R, X6S and X5R
- No polarity
- GRM033 series is suited to only reflow soldering.
- GRM series is offered with a Ni barrier termination plated with Matte Tin (Sn), and is RoHS compliant.
- Stringent dimensional tolerances allow highly reliable, high-speed automatic chip placement on PCBs.
- GRM033 series is suited to miniature microwave module, portable equipment and high-frequency circuit.

## GRM03-KIT-----E

| No. | Description           | Murata Global P/N | Qty. |
|-----|-----------------------|-------------------|------|
| 1   | 0201/C0G/0.50pF/25V   | GRM0335C1ER50BZ01 | 20   |
| 2   | 0201/C0G/1.0pF/25V    | GRM0335C1E1R0CD01 | 20   |
| 3   | 0201/C0G/1.2pF/25V    | GRM0335C1E1R2CD01 | 20   |
| 4   | 0201/C0G/1.5pF/25V    | GRM0335C1E1R5CD01 | 20   |
| 5   | 0201/C0G/1.8pF/25V    | GRM0335C1E1R8CD01 | 20   |
| 6   | 0201/C0G/2.0pF/25V    | GRM0335C1E2R0CD01 | 20   |
| 7   | 0201/C0G/2.2pF/25V    | GRM0335C1E2R2CD01 | 20   |
| 8   | 0201/C0G/2.7pF/25V    | GRM0335C1E2R7CD01 | 20   |
| 9   | 0201/C0G/3.0pF/25V    | GRM0335C1E3R0CD01 | 20   |
| 10  | 0201/C0G/3.3pF/25V    | GRM0335C1E3R3CD01 | 20   |
| 11  | 0201/C0G/3.9pF/25V    | GRM0335C1E3R9CD01 | 20   |
| 12  | 0201/C0G/4.0pF/25V    | GRM0335C1E4R0CD01 | 20   |
| 13  | 0201/C0G/4.7pF/25V    | GRM0335C1E4R7CD01 | 20   |
| 14  | 0201/C0G/5.0pF/25V    | GRM0335C1E5R0CD01 | 20   |
| 15  | 0201/C0G/5.6pF/25V    | GRM0335C1E5R6DD01 | 20   |
| 16  | 0201/C0G/6.0pF/25V    | GRM0335C1E6R0DD01 | 20   |
| 17  | 0201/C0G/6.8pF/25V    | GRM0335C1E6R8DD01 | 20   |
| 18  | 0201/C0G/7.0pF/25V    | GRM0335C1E7R0DD01 | 20   |
| 19  | 0201/C0G/8.0pF/25V    | GRM0335C1E8R0DD01 | 20   |
| 20  | 0201/C0G/8.2pF/25V    | GRM0335C1E8R2DD01 | 20   |
| 21  | 0201/C0G/9.0pF/25V    | GRM0335C1E9R0DD01 | 20   |
| 22  | 0201/C0G/10pF/25V     | GRM0335C1E100JD01 | 20   |
| 23  | 0201/C0G/12pF/25V     | GRM0335C1E120JD01 | 20   |
| 24  | 0201/C0G/15pF/25V     | GRM0335C1E150JD01 | 20   |
| 25  | 0201/C0G/18pF/25V     | GRM0335C1E180JD01 | 20   |
| 26  | 0201/C0G/22pF/25V     | GRM0335C1E220JD01 | 20   |
| 27  | 0201/C0G/27pF/25V     | GRM0335C1E270JD01 | 20   |
| 28  | 0201/C0G/33pF/25V     | GRM0335C1E330JD01 | 20   |
| 29  | 0201/C0G/39pF/25V     | GRM0335C1E390JD01 | 20   |
| 30  | 0201/C0G/47pF/25V     | GRM0335C1E470JD01 | 20   |
| 31  | 0201/C0G/56pF/25V     | GRM0335C1E560JD01 | 20   |
| 32  | 0201/C0G/68pF/25V     | GRM0335C1E680JD01 | 20   |
| 33  | 0201/C0G/82pF/25V     | GRM0335C1E820JD01 | 20   |
| 34  | 0201/C0G/100pF/25V    | GRM0335C1E101JD01 | 20   |
| 35  | 0201/X7R/100pF/25V    | GRM033R71E101KA01 | 20   |
| 36  | 0201/X7R/150pF/25V    | GRM033R71E151KA01 | 20   |
| 37  | 0201/X7R/220pF/25V    | GRM033R71E221KA01 | 20   |
| 38  | 0201/X7R/330pF/25V    | GRM033R71E331KA01 | 20   |
| 39  | 0201/X7R/470pF/25V    | GRM033R71E471KA01 | 20   |
| 40  | 0201/X7R/680pF/25V    | GRM033R71E681KA01 | 20   |
| 41  | 0201/X7R/1000pF/25V   | GRM033R71E102KA01 | 20   |
| 42  | 0201/X5R/1500pF/10V   | GRM033R61A152KA01 | 20   |
| 43  | 0201/X5R/2200pF/10V   | GRM033R61A222KA01 | 20   |
| 44  | 0201/X5R/3300pF/10V   | GRM033R61A332KA01 | 20   |
| 45  | 0201/X5R/4700pF/10V   | GRM033R61A472KA01 | 20   |
| 46  | 0201/X5R/6800pF/10V   | GRM033R61A682KA01 | 20   |
| 47  | 0201/X5R/10000pF/10V  | GRM033R61A103KA01 | 20   |
| 48  | 0201/X5R/22000pF/6.3V | GRM033R60J223KE01 | 20   |
| 49  | 0201/X5R/33000pF/6.3V | GRM033R60J333KE01 | 20   |
| 50  | 0201/X5R/47000pF/6.3V | GRM033R60J473KE19 | 20   |
| 51  | 0201/X5R/0.1uF/6.3V   | GRM033R60J104KE19 | 20   |
| 52  | 0201/X5R/0.22uF/4V    | GRM033R60J224ME15 | 20   |

NOTE: For Ceramic Chip Capacitors, dashes are part of the part number and must be included when placing an order.

## GENERAL CERAMIC CHIP CAPACITORS

## 0201 (6.3 to 25 VDC)

- Better Q and low ESR at VHF, UHF and microwave frequencies.
- 0201 and 0402 sizes with Copper inner electrode.
- Low power consumption, yield ratio improvement due to the better Q or lower ESR.
- GJM series is suited to VCO or PA module applications.
- GJM series is offered with a Ni barrier termination plated with Matte Tin (Sn), and is RoHS compliant.

## GJM03-KIT-----E

| No. | Description         | Murata Global P/N | Qty. |
|-----|---------------------|-------------------|------|
| 1   | 0201/C0G/0.20pF/25V | GJM0335C1ER20BB01 | 20   |
| 2   | 0201/C0G/0.30pF/25V | GJM0335C1ER30BB01 | 20   |
| 3   | 0201/C0G/0.40pF/25V | GJM0335C1ER40BB01 | 20   |
| 4   | 0201/C0G/0.50pF/25V | GJM0335C1ER50BB01 | 20   |
| 5   | 0201/C0G/0.60pF/25V | GJM0335C1ER60BB01 | 20   |
| 6   | 0201/C0G/0.70pF/25V | GJM0335C1ER70BB01 | 20   |
| 7   | 0201/C0G/0.80pF/25V | GJM0335C1ER80BB01 | 20   |
| 8   | 0201/C0G/0.90pF/25V | GJM0335C1ER90BB01 | 20   |
| 9   | 0201/C0G/1.0pF/25V  | GJM0335C1E1R0CB01 | 20   |
| 10  | 0201/C0G/1.1pF/25V  | GJM0335C1E1R1CB01 | 20   |
| 11  | 0201/C0G/1.2pF/25V  | GJM0335C1E1R2CB01 | 20   |
| 12  | 0201/C0G/1.3pF/25V  | GJM0335C1E1R3CB01 | 20   |
| 13  | 0201/C0G/1.5pF/25V  | GJM0335C1E1R5CB01 | 20   |
| 14  | 0201/C0G/1.6pF/25V  | GJM0335C1E1R6CB01 | 20   |
| 15  | 0201/C0G/1.8pF/25V  | GJM0335C1E1R8CB01 | 20   |
| 16  | 0201/C0G/2.0pF/25V  | GJM0335C1E2R0CB01 | 20   |
| 17  | 0201/C0G/2.2pF/25V  | GJM0335C1E2R2CB01 | 20   |
| 18  | 0201/C0G/2.4pF/25V  | GJM0335C1E2R4CB01 | 20   |
| 19  | 0201/C0G/2.7pF/25V  | GJM0335C1E2R7CB01 | 20   |
| 20  | 0201/C0G/3.0pF/25V  | GJM0335C1E3R0CB01 | 20   |
| 21  | 0201/C0G/3.3pF/25V  | GJM0335C1E3R3CB01 | 20   |
| 22  | 0201/C0G/3.6pF/25V  | GJM0335C1E3R6CB01 | 20   |
| 23  | 0201/C0G/3.9pF/25V  | GJM0335C1E3R9CB01 | 20   |
| 24  | 0201/C0G/4.0pF/25V  | GJM0335C1E4R0CB01 | 20   |
| 25  | 0201/C0G/4.3pF/25V  | GJM0335C1E4R3CB01 | 20   |
| 26  | 0201/C0G/4.7pF/25V  | GJM0335C1E4R7CB01 | 20   |
| 27  | 0201/C0G/5.0pF/25V  | GJM0335C1E5R0CB01 | 20   |
| 28  | 0201/C0G/5.1pF/25V  | GJM0335C1E5R1DB01 | 20   |
| 29  | 0201/C0G/5.6pF/25V  | GJM0335C1E5R6DB01 | 20   |
| 30  | 0201/C0G/6.0pF/25V  | GJM0335C1E6R0DB01 | 20   |
| 31  | 0201/C0G/6.2pF/25V  | GJM0335C1E6R2DB01 | 20   |
| 32  | 0201/C0G/6.8pF/25V  | GJM0335C1E6R8DB01 | 20   |
| 33  | 0201/C0H/7.0pF/25V  | GJM0336C1E7R0DB01 | 20   |
| 34  | 0201/C0H/7.5pF/25V  | GJM0336C1E7R5DB01 | 20   |
| 35  | 0201/C0H/8.0pF/25V  | GJM0336C1E8R0DB01 | 20   |
| 36  | 0201/C0H/8.2pF/25V  | GJM0336C1E8R2DB01 | 20   |
| 37  | 0201/C0H/9.0pF/25V  | GJM0336C1E9R0DB01 | 20   |
| 38  | 0201/C0H/9.1pF/25V  | GJM0336C1E9R1DB01 | 20   |
| 39  | 0201/C0H/10pF/25V   | GJM0336C1E100JB01 | 20   |
| 40  | 0201/C0H/12pF/25V   | GJM0336C1E120JB01 | 20   |
| 41  | 0201/C0H/15pF/25V   | GJM0336C1E150JB01 | 20   |
| 42  | 0201/C0H/18pF/25V   | GJM0336C1E180JB01 | 20   |
| 43  | 0201/C0H/20pF/25V   | GJM0336C1E200JB01 | 20   |
| 44  | 0201/C0G/22pF/6.3V  | GJM0335C0J220JB01 | 20   |
| 45  | 0201/C0G/27pF/6.3V  | GJM0335C0J270JB01 | 20   |
| 46  | 0201/C0G/33pF/6.3V  | GJM0335C0J330JB01 | 20   |

NOTE: For Ceramic Chip Capacitors, dashes are part of the part number and must be included when placing an order.

## 0201 (6.3 to 25 VDC) Tight Tolerance

- Better Q and low ESR at VHF, UHF and microwave frequencies.
- 0201 and 0402 sizes with Copper inner electrode.
- Tight tolerance  
 [W] = +/-0.05pF for 5pF & under [B] = +/-0.1pF for under 10pF  
 [C] = +/-0.25pF for under 10pF  
 [F] = +/-1% for 10pF & over [G] = +/-2% for 10pF & over
- Low power consumption, yield ratio improvement due to the better Q or lower ESR.
- GJM series is suited to VCO or PA module applications.
- GJM series is offered with a Ni barrier termination plated with Matte Tin (Sn), and is RoHS compliant.

## GJM03-KIT-TTOL---E

| No. | Description         | Murata Global P/N | Qty. |
|-----|---------------------|-------------------|------|
| 1   | 0201/C0G/0.20pF/25V | GJM0335C1ER20WB01 | 20   |
| 2   | 0201/C0G/0.30pF/25V | GJM0335C1ER30WB01 | 20   |
| 3   | 0201/C0G/0.40pF/25V | GJM0335C1ER40WB01 | 20   |
| 4   | 0201/C0G/0.50pF/25V | GJM0335C1ER50WB01 | 20   |
| 5   | 0201/C0G/0.60pF/25V | GJM0335C1ER60WB01 | 20   |
| 6   | 0201/C0G/0.70pF/25V | GJM0335C1ER70WB01 | 20   |
| 7   | 0201/C0G/0.80pF/25V | GJM0335C1ER80WB01 | 20   |
| 8   | 0201/C0G/0.90pF/25V | GJM0335C1ER90WB01 | 20   |
| 9   | 0201/C0G/1.0pF/25V  | GJM0335C1E1R0BB01 | 20   |
| 10  | 0201/C0G/1.1pF/25V  | GJM0335C1E1R1BB01 | 20   |
| 11  | 0201/C0G/1.2pF/25V  | GJM0335C1E1R2BB01 | 20   |
| 12  | 0201/C0G/1.3pF/25V  | GJM0335C1E1R3BB01 | 20   |
| 13  | 0201/C0G/1.5pF/25V  | GJM0335C1E1R5BB01 | 20   |
| 14  | 0201/C0G/1.6pF/25V  | GJM0335C1E1R6BB01 | 20   |
| 15  | 0201/C0G/1.8pF/25V  | GJM0335C1E1R8BB01 | 20   |
| 16  | 0201/C0G/2.0pF/25V  | GJM0335C1E2R0BB01 | 20   |
| 17  | 0201/C0G/2.2pF/25V  | GJM0335C1E2R2BB01 | 20   |
| 18  | 0201/C0G/2.4pF/25V  | GJM0335C1E2R4BB01 | 20   |
| 19  | 0201/C0G/2.7pF/25V  | GJM0335C1E2R7BB01 | 20   |
| 20  | 0201/C0G/3.0pF/25V  | GJM0335C1E3R0BB01 | 20   |
| 21  | 0201/C0G/3.3pF/25V  | GJM0335C1E3R3BB01 | 20   |
| 22  | 0201/C0G/3.6pF/25V  | GJM0335C1E3R6BB01 | 20   |
| 23  | 0201/C0G/3.9pF/25V  | GJM0335C1E3R9BB01 | 20   |
| 24  | 0201/C0G/4.0pF/25V  | GJM0335C1E4R0BB01 | 20   |
| 25  | 0201/C0G/4.3pF/25V  | GJM0335C1E4R3BB01 | 20   |
| 26  | 0201/C0G/4.7pF/25V  | GJM0335C1E4R7BB01 | 20   |
| 27  | 0201/C0G/5.0pF/25V  | GJM0335C1E5R0BB01 | 20   |
| 28  | 0201/C0G/5.1pF/25V  | GJM0335C1E5R1CB01 | 20   |
| 29  | 0201/C0G/5.6pF/25V  | GJM0335C1E5R6CB01 | 20   |
| 30  | 0201/C0G/6.0pF/25V  | GJM0335C1E6R0CB01 | 20   |
| 31  | 0201/C0G/6.2pF/25V  | GJM0335C1E6R2CB01 | 20   |
| 32  | 0201/C0G/6.8pF/25V  | GJM0335C1E6R8CB01 | 20   |
| 33  | 0201/C0H/7.0pF/25V  | GJM0336C1E7R0CB01 | 20   |
| 34  | 0201/C0H/7.5pF/25V  | GJM0336C1E7R5CB01 | 20   |
| 35  | 0201/C0H/8.0pF/25V  | GJM0336C1E8R0CB01 | 20   |
| 36  | 0201/C0H/8.2pF/25V  | GJM0336C1E8R2CB01 | 20   |
| 37  | 0201/C0H/9.0pF/25V  | GJM0336C1E9R0CB01 | 20   |
| 38  | 0201/C0H/9.1pF/25V  | GJM0336C1E9R1CB01 | 20   |
| 39  | 0201/C0H/10pF/25V   | GJM0336C1E100GB01 | 20   |
| 40  | 0201/C0H/12pF/25V   | GJM0336C1E120GB01 | 20   |
| 41  | 0201/C0H/15pF/25V   | GJM0336C1E150GB01 | 20   |
| 42  | 0201/C0H/18pF/25V   | GJM0336C1E180GB01 | 20   |
| 43  | 0201/C0H/20pF/25V   | GJM0336C1E200GB01 | 20   |
| 44  | 0201/C0G/22pF/6.3V  | GJM0335C0J220GB01 | 20   |
| 45  | 0201/C0G/27pF/6.3V  | GJM0335C0J270GB01 | 20   |
| 46  | 0201/C0G/33pF/6.3V  | GJM0335C0J330GB01 | 20   |

## GENERAL CERAMIC CHIP CAPACITORS

## 0402 (50 VDC)

- Better Q and low ESR at VHF, UHF and microwave frequencies.
- 0201 and 0402 sizes with Copper inner electrode.
- Low power consumption, yield ratio improvement due to the better Q or lower ESR.
- GJM series is suited to VCO or PA module applications.
- GJM series is offered with a Ni barrier termination plated with Matte Tin (Sn), and is RoHS compliant.

## GJM15-KIT-----E

| No. | Description         | Murata Global P/N | Qty. |
|-----|---------------------|-------------------|------|
| 1   | 0402/C0G/0.10pF/50V | GJM1555C1HR10BB01 | 20   |
| 2   | 0402/C0G/0.20pF/50V | GJM1555C1HR20BB01 | 20   |
| 3   | 0402/C0G/0.30pF/50V | GJM1555C1HR30BB01 | 20   |
| 4   | 0402/C0G/0.40pF/50V | GJM1555C1HR40BB01 | 20   |
| 5   | 0402/C0G/0.50pF/50V | GJM1555C1HR50BB01 | 20   |
| 6   | 0402/C0G/0.60pF/50V | GJM1555C1HR60BB01 | 20   |
| 7   | 0402/C0G/0.70pF/50V | GJM1555C1HR70BB01 | 20   |
| 8   | 0402/C0G/0.80pF/50V | GJM1555C1HR80BB01 | 20   |
| 9   | 0402/C0G/0.90pF/50V | GJM1555C1HR90BB01 | 20   |
| 10  | 0402/C0G/1.0pF/50V  | GJM1555C1H1R0CB01 | 20   |
| 11  | 0402/C0G/1.1pF/50V  | GJM1555C1H1R1CB01 | 20   |
| 12  | 0402/C0G/1.2pF/50V  | GJM1555C1H1R2CB01 | 20   |
| 13  | 0402/C0G/1.3pF/50V  | GJM1555C1H1R3CB01 | 20   |
| 14  | 0402/C0G/1.5pF/50V  | GJM1555C1H1R5CB01 | 20   |
| 15  | 0402/C0G/1.6pF/50V  | GJM1555C1H1R6CB01 | 20   |
| 16  | 0402/C0G/1.8pF/50V  | GJM1555C1H1R8CB01 | 20   |
| 17  | 0402/C0G/2.0pF/50V  | GJM1555C1H2R0CB01 | 20   |
| 18  | 0402/C0G/2.2pF/50V  | GJM1555C1H2R2CB01 | 20   |
| 19  | 0402/C0G/2.4pF/50V  | GJM1555C1H2R4CB01 | 20   |
| 20  | 0402/C0G/2.7pF/50V  | GJM1555C1H2R7CB01 | 20   |
| 21  | 0402/C0G/3.0pF/50V  | GJM1555C1H3R0CB01 | 20   |
| 22  | 0402/C0G/3.3pF/50V  | GJM1555C1H3R3CB01 | 20   |
| 23  | 0402/C0G/3.6pF/50V  | GJM1555C1H3R6CB01 | 20   |
| 24  | 0402/C0G/3.9pF/50V  | GJM1555C1H3R9CB01 | 20   |
| 25  | 0402/C0G/4.0pF/50V  | GJM1555C1H4R0CB01 | 20   |
| 26  | 0402/C0G/4.3pF/50V  | GJM1555C1H4R3CB01 | 20   |
| 27  | 0402/C0G/4.7pF/50V  | GJM1555C1H4R7CB01 | 20   |
| 28  | 0402/C0G/5.0pF/50V  | GJM1555C1H5R0CB01 | 20   |
| 29  | 0402/C0G/5.1pF/50V  | GJM1555C1H5R1DB01 | 20   |
| 30  | 0402/C0G/5.6pF/50V  | GJM1555C1H5R6DB01 | 20   |
| 31  | 0402/C0G/6.0pF/50V  | GJM1555C1H6R0DB01 | 20   |
| 32  | 0402/C0G/6.2pF/50V  | GJM1555C1H6R2DB01 | 20   |
| 33  | 0402/C0G/6.8pF/50V  | GJM1555C1H6R8DB01 | 20   |
| 34  | 0402/C0G/7.0pF/50V  | GJM1555C1H7R0DB01 | 20   |
| 35  | 0402/C0G/7.5pF/50V  | GJM1555C1H7R5DB01 | 20   |
| 36  | 0402/C0G/8.0pF/50V  | GJM1555C1H8R0DB01 | 20   |
| 37  | 0402/C0G/8.2pF/50V  | GJM1555C1H8R2DB01 | 20   |
| 38  | 0402/C0G/9.0pF/50V  | GJM1555C1H9R0DB01 | 20   |
| 39  | 0402/C0G/9.1pF/50V  | GJM1555C1H9R1DB01 | 20   |
| 40  | 0402/C0G/10pF/50V   | GJM1555C1H100JB01 | 20   |
| 41  | 0402/C0G/12pF/50V   | GJM1555C1H120JB01 | 20   |
| 42  | 0402/C0G/15pF/50V   | GJM1555C1H150JB01 | 20   |
| 43  | 0402/C0G/18pF/50V   | GJM1555C1H180JB01 | 20   |
| 44  | 0402/C0G/20pF/50V   | GJM1555C1H200JB01 | 20   |

NOTE: For Ceramic Chip Capacitors, dashes are part of the part number and must be included when placing an order.

## 0402 (50 VDC) Tight Tolerance

- Better Q and low ESR at VHF, UHF and microwave frequencies.
- 0201 and 0402 sizes with Copper inner electrode.
- Tight tolerance  
 [W] = +/-0.05pF for 5pF & under [B] = +/-0.1pF for under 10pF  
 [C] = +/-0.25pF for under 10pF  
 [F] = +/-1% for 10pF & over [G] = +/-2% for 10pF & over
- Low power consumption, yield ratio improvement due to the better Q or lower ESR.
- GJM series is suited to VCO or PA module applications.
- GJM series is offered with a Ni barrier termination plated with Matte Tin (Sn), and is RoHS compliant.

## GJM15-KIT-TTOL---E

| No. | Description         | Murata Global P/N | Qty. |
|-----|---------------------|-------------------|------|
| 1   | 0402/C0G/0.10pF/50V | GJM1555C1HR10WB01 | 20   |
| 2   | 0402/C0G/0.20pF/50V | GJM1555C1HR20WB01 | 20   |
| 3   | 0402/C0G/0.30pF/50V | GJM1555C1HR30WB01 | 20   |
| 4   | 0402/C0G/0.40pF/50V | GJM1555C1HR40WB01 | 20   |
| 5   | 0402/C0G/0.50pF/50V | GJM1555C1HR50WB01 | 20   |
| 6   | 0402/C0G/0.60pF/50V | GJM1555C1HR60WB01 | 20   |
| 7   | 0402/C0G/0.70pF/50V | GJM1555C1HR70WB01 | 20   |
| 8   | 0402/C0G/0.80pF/50V | GJM1555C1HR80WB01 | 20   |
| 9   | 0402/C0G/0.90pF/50V | GJM1555C1HR90WB01 | 20   |
| 10  | 0402/C0G/1.0pF/50V  | GJM1555C1H1R0BB01 | 20   |
| 11  | 0402/C0G/1.1pF/50V  | GJM1555C1H1R1BB01 | 20   |
| 12  | 0402/C0G/1.2pF/50V  | GJM1555C1H1R2BB01 | 20   |
| 13  | 0402/C0G/1.3pF/50V  | GJM1555C1H1R3BB01 | 20   |
| 14  | 0402/C0G/1.5pF/50V  | GJM1555C1H1R5BB01 | 20   |
| 15  | 0402/C0G/1.6pF/50V  | GJM1555C1H1R6BB01 | 20   |
| 16  | 0402/C0G/1.8pF/50V  | GJM1555C1H1R8BB01 | 20   |
| 17  | 0402/C0G/2.0pF/50V  | GJM1555C1H2R0BB01 | 20   |
| 18  | 0402/C0G/2.2pF/50V  | GJM1555C1H2R2BB01 | 20   |
| 19  | 0402/C0G/2.4pF/50V  | GJM1555C1H2R4BB01 | 20   |
| 20  | 0402/C0G/2.7pF/50V  | GJM1555C1H2R7BB01 | 20   |
| 21  | 0402/C0G/3.0pF/50V  | GJM1555C1H3R0BB01 | 20   |
| 22  | 0402/C0G/3.3pF/50V  | GJM1555C1H3R3BB01 | 20   |
| 23  | 0402/C0G/3.6pF/50V  | GJM1555C1H3R6BB01 | 20   |
| 24  | 0402/C0G/3.9pF/50V  | GJM1555C1H3R9BB01 | 20   |
| 25  | 0402/C0G/4.0pF/50V  | GJM1555C1H4R0BB01 | 20   |
| 26  | 0402/C0G/4.3pF/50V  | GJM1555C1H4R3BB01 | 20   |
| 27  | 0402/C0G/4.7pF/50V  | GJM1555C1H4R7BB01 | 20   |
| 28  | 0402/C0G/5.0pF/50V  | GJM1555C1H5R0BB01 | 20   |
| 29  | 0402/C0G/5.1pF/50V  | GJM1555C1H5R1CB01 | 20   |
| 30  | 0402/C0G/5.6pF/50V  | GJM1555C1H5R6CB01 | 20   |
| 31  | 0402/C0G/6.0pF/50V  | GJM1555C1H6R0CB01 | 20   |
| 32  | 0402/C0G/6.2pF/50V  | GJM1555C1H6R2CB01 | 20   |
| 33  | 0402/C0G/6.8pF/50V  | GJM1555C1H6R8CB01 | 20   |
| 34  | 0402/C0G/7.0pF/50V  | GJM1555C1H7R0CB01 | 20   |
| 35  | 0402/C0G/7.5pF/50V  | GJM1555C1H7R5CB01 | 20   |
| 36  | 0402/C0G/8.0pF/50V  | GJM1555C1H8R0CB01 | 20   |
| 37  | 0402/C0G/8.2pF/50V  | GJM1555C1H8R2CB01 | 20   |
| 38  | 0402/C0G/9.0pF/50V  | GJM1555C1H9R0CB01 | 20   |
| 39  | 0402/C0G/9.1pF/50V  | GJM1555C1H9R1CB01 | 20   |
| 40  | 0402/C0G/10pF/50V   | GJM1555C1H100GB01 | 20   |
| 41  | 0402/C0G/12pF/50V   | GJM1555C1H120GB01 | 20   |
| 42  | 0402/C0G/15pF/50V   | GJM1555C1H150GB01 | 20   |
| 43  | 0402/C0G/18pF/50V   | GJM1555C1H180GB01 | 20   |
| 44  | 0402/C0G/20pF/50V   | GJM1555C1H200GB01 | 20   |

## GENERAL CERAMIC CHIP CAPACITORS

## 0402 (6.3 to 50 VDC)

- Miniature chip size, 0402 (L:1.0 x W:0.5 x T:0.5mm).
- The GRM155 series is a complete line of chip ceramic capacitor in 6.3V, 10V, 16V, 25V and 50V.
- Temperature characteristics: C0G, U2J, X7R, X6S, X5R, Y5V
- No Polarity
- Nickel barrier with Tin layer termination.
- Suitable for reflow soldering.
- Stringent dimensional tolerances allow highly reliable, high speed automatic chip placement on PCBs.
- Tape and reel packaging (10,000pcs/reel) and Bulk case packaging (50,000pcs/case) are available.

## GRM15-KIT-----E

| No. | Description          | Murata Global P/N | Qty. |
|-----|----------------------|-------------------|------|
| 1   | 0402/C0G/0.50pF/50V  | GRM1555C1HR50BA01 | 20   |
| 2   | 0402/C0G/1.0pF/50V   | GRM1555C1H1R0CA01 | 20   |
| 3   | 0402/C0G/1.2pF/50V   | GRM1555C1H1R2CA01 | 20   |
| 4   | 0402/C0G/1.5pF/50V   | GRM1555C1H1R5CA01 | 20   |
| 5   | 0402/C0G/1.8pF/50V   | GRM1555C1H1R8CA01 | 20   |
| 6   | 0402/C0G/2.2pF/50V   | GRM1555C1H2R2CA01 | 20   |
| 7   | 0402/C0G/2.7pF/50V   | GRM1555C1H2R7CA01 | 20   |
| 8   | 0402/C0G/3.3pF/50V   | GRM1555C1H3R3CA01 | 20   |
| 9   | 0402/C0G/3.9pF/50V   | GRM1555C1H3R9CA01 | 20   |
| 10  | 0402/C0G/4.7pF/50V   | GRM1555C1H4R7CA01 | 20   |
| 11  | 0402/C0G/5.6pF/50V   | GRM1555C1H5R6DA01 | 20   |
| 12  | 0402/C0G/6.8pF/50V   | GRM1555C1H6R8DA01 | 20   |
| 13  | 0402/C0G/8.2pF/50V   | GRM1555C1H8R2DA01 | 20   |
| 14  | 0402/C0G/10pF/50V    | GRM1555C1H100JA01 | 20   |
| 15  | 0402/C0G/12pF/50V    | GRM1555C1H120JA01 | 20   |
| 16  | 0402/C0G/15pF/50V    | GRM1555C1H150JA01 | 20   |
| 17  | 0402/C0G/18pF/50V    | GRM1555C1H180JA01 | 20   |
| 18  | 0402/C0G/22pF/50V    | GRM1555C1H220JA01 | 20   |
| 19  | 0402/C0G/27pF/50V    | GRM1555C1H270JA01 | 20   |
| 20  | 0402/C0G/33pF/50V    | GRM1555C1H330JA01 | 20   |
| 21  | 0402/C0G/39pF/50V    | GRM1555C1H390JA01 | 20   |
| 22  | 0402/C0G/47pF/50V    | GRM1555C1H470JA01 | 20   |
| 23  | 0402/C0G/56pF/50V    | GRM1555C1H560JA01 | 20   |
| 24  | 0402/C0G/68pF/50V    | GRM1555C1H680JA01 | 20   |
| 25  | 0402/C0G/82pF/50V    | GRM1555C1H820JA01 | 20   |
| 26  | 0402/C0G/100pF/50V   | GRM1555C1H101JA01 | 20   |
| 27  | 0402/C0G/120pF/50V   | GRM1555C1H121JA01 | 20   |
| 28  | 0402/C0G/150pF/50V   | GRM1555C1H151JA01 | 20   |
| 29  | 0402/C0G/180pF/50V   | GRM1555C1H181JA01 | 20   |
| 30  | 0402/C0G/220pF/50V   | GRM1555C1H221JA01 | 20   |
| 31  | 0402/C0G/270pF/50V   | GRM1555C1H271JA01 | 20   |
| 32  | 0402/C0G/330pF/50V   | GRM1555C1H331JA01 | 20   |
| 33  | 0402/C0G/390pF/50V   | GRM1555C1H391JA01 | 20   |
| 34  | 0402/C0G/470pF/50V   | GRM1555C1H471JA01 | 20   |
| 35  | 0402/C0G/560pF/50V   | GRM1555C1H561JA01 | 20   |
| 36  | 0402/C0G/680pF/50V   | GRM1555C1H681JA01 | 20   |
| 37  | 0402/C0G/820pF/50V   | GRM1555C1H821JA01 | 20   |
| 38  | 0402/C0G/1000pF/50V  | GRM1555C1H102JA01 | 20   |
| 39  | 0402/X7R/220pF/50V   | GRM155R71H221KA01 | 20   |
| 40  | 0402/X7R/470pF/50V   | GRM155R71H471KA01 | 20   |
| 41  | 0402/X7R/1000pF/50V  | GRM155R71H102KA01 | 20   |
| 42  | 0402/X7R/2200pF/50V  | GRM155R71H222KA01 | 20   |
| 43  | 0402/X7R/4700pF/50V  | GRM155R71H472KA01 | 20   |
| 44  | 0402/X7R/10000pF/50V | GRM155R71H103KA88 | 20   |
| 45  | 0402/X7R/22000pF/25V | GRM155R71E223KA61 | 20   |
| 46  | 0402/X7R/47000pF/25V | GRM155R71E473KA88 | 20   |
| 47  | 0402/X7R/0.1uF/16V   | GRM155R71C104KA88 | 20   |

GRM15-KIT-----E *continued*

| No. | Description          | Murata Global P/N | Qty. |
|-----|----------------------|-------------------|------|
| 48  | 0402/X5R/0.22uF/10V  | GRM155R61A224KE19 | 20   |
| 49  | 0402/X5R/0.22uF/6.3V | GRM155R60J224KE01 | 20   |
| 50  | 0402/X5R/0.47uF/10V  | GRM155R61A474KE15 | 20   |
| 51  | 0402/X5R/0.47uF/6.3V | GRM155R60J474KE19 | 20   |
| 52  | 0402/X5R/1uF/10V     | GRM155R61A105KE15 | 20   |

**NOTE:** For Ceramic Chip Capacitors, dashes are part of the part number and must be included when placing an order.

## GENERAL CERAMIC CHIP CAPACITORS

## 0603 (6.3 to 50 VDC)

- Miniature chip size, 0603 (L:1.6 x W:0.8 x T:0.8mm).
- The GRM188 series is a complete line of chip ceramic capacitor in 6.3V, 10V, 16V, 25V and 50V.
- Temperature characteristics: C0G, U2J, X7R, X6S, X5R, Y5V
- No Polarity
- Nickel barrier with Tin layer termination.
- Suitable for reflow soldering.
- Stringent dimensional tolerances allow highly reliable, high speed automatic chip placement on PCBs.
- Tape and reel packaging (10,000pcs/reel) and Bulk case packaging (50,000pcs/case) are available.

## GRM18-KIT-----E

| No. | Description          | Murata Global P/N | Qty. |
|-----|----------------------|-------------------|------|
| 1   | 0603/C0G/10pF/50V    | GRM1885C1H100JA01 | 20   |
| 2   | 0603/C0G/12pF/50V    | GRM1885C1H120JA01 | 20   |
| 3   | 0603/C0G/15pF/50V    | GRM1885C1H150JA01 | 20   |
| 4   | 0603/C0G/18pF/50V    | GRM1885C1H180JA01 | 20   |
| 5   | 0603/C0G/22pF/50V    | GRM1885C1H220JA01 | 20   |
| 6   | 0603/C0G/27pF/50V    | GRM1885C1H270JA01 | 20   |
| 7   | 0603/C0G/33pF/50V    | GRM1885C1H330JA01 | 20   |
| 8   | 0603/C0G/39pF/50V    | GRM1885C1H390JA01 | 20   |
| 9   | 0603/C0G/47pF/50V    | GRM1885C1H470JA01 | 20   |
| 10  | 0603/C0G/56pF/50V    | GRM1885C1H560JA01 | 20   |
| 11  | 0603/C0G/68pF/50V    | GRM1885C1H680JA01 | 20   |
| 12  | 0603/C0G/82pF/50V    | GRM1885C1H820JA01 | 20   |
| 13  | 0603/C0G/100pF/50V   | GRM1885C1H101JA01 | 20   |
| 14  | 0603/C0G/120pF/50V   | GRM1885C1H121JA01 | 20   |
| 15  | 0603/C0G/150pF/50V   | GRM1885C1H151JA01 | 20   |
| 16  | 0603/C0G/180pF/50V   | GRM1885C1H181JA01 | 20   |
| 17  | 0603/C0G/220pF/50V   | GRM1885C1H221JA01 | 20   |
| 18  | 0603/C0G/270pF/50V   | GRM1885C1H271JA01 | 20   |
| 19  | 0603/C0G/330pF/50V   | GRM1885C1H331JA01 | 20   |
| 20  | 0603/C0G/390pF/50V   | GRM1885C1H391JA01 | 20   |
| 21  | 0603/C0G/470pF/50V   | GRM1885C1H471JA01 | 20   |
| 22  | 0603/C0G/560pF/50V   | GRM1885C1H561JA01 | 20   |
| 23  | 0603/C0G/680pF/50V   | GRM1885C1H681JA01 | 20   |
| 24  | 0603/C0G/820pF/50V   | GRM1885C1H821JA01 | 20   |
| 25  | 0603/C0G/1000pF/50V  | GRM1885C1H102JA01 | 20   |
| 26  | 0603/C0G/1200pF/50V  | GRM1885C1H122JA01 | 20   |
| 27  | 0603/C0G/1500pF/50V  | GRM1885C1H152JA01 | 20   |
| 28  | 0603/C0G/1800pF/50V  | GRM1885C1H182JA01 | 20   |
| 29  | 0603/C0G/2200pF/50V  | GRM1885C1H222JA01 | 20   |
| 30  | 0603/C0G/2700pF/50V  | GRM1885C1H272JA01 | 20   |
| 31  | 0603/X7R/1000pF/50V  | GRM188R71H102KA01 | 20   |
| 32  | 0603/X7R/2200pF/50V  | GRM188R71H222KA01 | 20   |
| 33  | 0603/X7R/4700pF/50V  | GRM188R71H472KA01 | 20   |
| 34  | 0603/X7R/10000pF/50V | GRM188R71H103KA01 | 20   |
| 35  | 0603/X7R/22000pF/50V | GRM188R71H223KA01 | 20   |
| 36  | 0603/X7R/47000pF/50V | GRM188R71H473KA61 | 20   |
| 37  | 0603/X7R/0.1uF/50V   | GRM188R71H104KA93 | 20   |
| 38  | 0603/X7R/0.22uF/25V  | GRM188R71E224KA88 | 20   |
| 39  | 0603/X7R/0.47uF/16V  | GRM188R71C474KA88 | 20   |
| 40  | 0603/X5R/1uF/16V     | GRM188R61C105KA93 | 20   |
| 41  | 0603/X5R/1uF/10V     | GRM188R61A105KA61 | 20   |
| 42  | 0603/X5R/2.2uF/10V   | GRM188R61A225KE34 | 20   |
| 43  | 0603/X5R/4.7uF/6.3V  | GRM188R60J475KE19 | 20   |
| 44  | 0603/X5R/10uF/6.3V   | GRM188R60J106ME47 | 20   |

**NOTE:** For Ceramic Chip Capacitors, dashes are part of the part number and must be included when placing an order.

## GENERAL CERAMIC CHIP CAPACITORS

0402 – 1210 (6.3 to 50 VDC)

- TA chip capacitor replacement product lineup is available in X7R (X7S, X7T, X7U), X6S(X6T) and X5R temperature characteristics with a capacitance of 1uF and larger.
- The line of high volumetric capacitance ceramic chip capacitors is available in 6.3V, 10V, 16V, 25V and 50V.
- No Polarity
- GRM series is offered with a Ni barrier termination plated with Matte Tin, and is RoHS compliant.
- Stringent dimensional tolerances allow highly reliable, high speed automatic chip placement on PCBs.

## GRM---KIT-HICAP--E

| No. | Description         | Murata Global P/N | Qty |
|-----|---------------------|-------------------|-----|
| 1   | 0402/X5R/1uF/10V    | GRM155R61A105KE15 | 20  |
| 2   | 0402/X5R/1uF/6.3V   | GRM155R60J105KE19 | 20  |
| 3   | 0402/X5R/2.2uF/4V   | GRM155R60G225ME15 | 20  |
| 4   | 0603/X5R/1uF/25V    | GRM188R61E105KA12 | 20  |
| 5   | 0603/X5R/1uF/16V    | GRM185R61C105KE44 | 20  |
| 6   | 0603/X5R/2.2uF/16V  | GRM188R61C225KE15 | 20  |
| 7   | 0603/X5R/2.2uF/10V  | GRM188R61A225KE34 | 20  |
| 8   | 0603/X5R/4.7uF/6.3V | GRM188R60J475KE19 | 20  |
| 9   | 0603/X5R/10uF/6.3V  | GRM188R60J106ME47 | 20  |
| 10  | 0805/X7R/1uF/50V    | GRM21BR71H105KA12 | 20  |
| 11  | 0805/X7R/1uF/25V    | GRM21BR71E105KA99 | 20  |
| 12  | 0805/X5R/1uF/25V    | GRM216R61E105KA12 | 20  |
| 13  | 0805/X7R/1uF/16V    | GRM21BR71C105KA01 | 20  |
| 14  | 0805/X5R/2.2uF/25V  | GRM219R61E225KA12 | 20  |
| 15  | 0805/X7R/2.2uF/10V  | GRM21BR71A225KA01 | 20  |
| 16  | 0805/X5R/4.7uF/25V  | GRM21BR61E475KA12 | 20  |
| 17  | 0805/X5R/4.7uF/16V  | GRM21BR61C475KA88 | 20  |
| 18  | 0805/X5R/4.7uF/10V  | GRM219R61A475KE34 | 20  |
| 19  | 0805/X5R/10uF/16V   | GRM21BR61C106KE15 | 20  |
| 20  | 0805/X5R/10uF/10V   | GRM21BR61A106KE19 | 20  |
| 21  | 0805/X5R/22uF/6.3V  | GRM21BR60J226ME39 | 20  |
| 22  | 0805/X5R/22uF/4V    | GRM219R60G226ME66 | 20  |
| 23  | 1206/X7R/2.2uF/25V  | GRM31MR71E225KA93 | 20  |
| 24  | 1206/X5R/4.7uF/50V  | GRM31CR71H475KA12 | 20  |
| 25  | 1206/X7R/10uF/25V   | GRM31CR71E106KA12 | 20  |
| 26  | 1206/X5R/10uF/25V   | GRM31CR61E106KA12 | 20  |
| 27  | 1206/X5R/10uF/10V   | GRM319R61A106KE19 | 20  |
| 28  | 1206/X5R/22uF/16V   | GRM31CR61C226ME15 | 20  |
| 29  | 1206/X5R/47uF/6.3V  | GRM31CR60J476ME19 | 20  |
| 30  | 1206/X5R/100uF/6.3V | GRM31CR60J107ME39 | 20  |
| 31  | 1210/X7R/10uF/35V   | GRM32ER7YA106KA12 | 20  |
| 32  | 1210/X5R/22uF/25V   | GRM32ER61E226ME15 | 20  |
| 33  | 1210/X7R/22uF/10V   | GRM32ER71A226ME20 | 20  |
| 34  | 1210/X5R/47uF/16V   | GRM32ER61C476ME15 | 20  |
| 35  | 1210/X5R/100uF/6.3V | GRM32ER60J107ME20 | 20  |

NOTE: For Ceramic Chip Capacitors, dashes are part of the part number and must be included when placing an order.

## GENERAL CERAMIC CHIP CAPACITORS

0402 – 1210 (6.3 to 50 VDC)

- Low distortion and low shock noise make these capacitors well suited for replacing film chip capacitors.
- No Polarity
- GRM series is offered with a Ni barrier termination plated with Matte Tin (Sn), and is RoHS compliant.
- Stringent dimensional tolerances allow highly reliable, high-speed automatic chip placement on PCBs.
- Temperature characteristics: C0G, U2J and X7R

## GRM---KIT-TCHIK--E

| No. | Description          | Murata Global P/N | Qty. |
|-----|----------------------|-------------------|------|
| 1   | 0402/C0G/150pF/50V   | GRM1555C1H151JA01 | 20   |
| 2   | 0402/C0G/330pF/50V   | GRM1555C1H331JA01 | 20   |
| 3   | 0402/C0G/470pF/50V   | GRM1555C1H471JA01 | 20   |
| 4   | 0402/C0G/680pF/50V   | GRM1555C1H681JA01 | 20   |
| 5   | 0402/C0G/1000pF/50V  | GRM1555C1H102JA01 | 20   |
| 6   | 0603/C0G/1500pF/50V  | GRM1885C1H152JA01 | 20   |
| 7   | 0603/C0G/2200pF/50V  | GRM1885C1H222JA01 | 20   |
| 8   | 0603/C0G/3300pF/50V  | GRM1885C1H332JA01 | 20   |
| 9   | 0805/C0G/4700pF/50V  | GRM2165C1H472JA01 | 20   |
| 10  | 0805/C0G/6800pF/50V  | GRM2195C1H682JA01 | 20   |
| 11  | 0805/C0G/10000pF/50V | GRM2195C1H103JA01 | 20   |
| 12  | 0805/C0G/15000pF/50V | GRM2195C1H153JA01 | 20   |
| 13  | 0805/C0G/22000pF/50V | GRM21B5C1H223JA01 | 20   |
| 14  | 1206/C0G/33000pF/50V | GRM3195C1H333JA01 | 20   |
| 15  | 1206/C0G/47000pF/50V | GRM31M5C1H473JA01 | 20   |
| 16  | 1206/C0G/68000pF/50V | GRM31C5C1H683JA01 | 20   |
| 17  | 1206/C0G/0.1uF/50V   | GRM31C5C1H104JA01 | 20   |
| 18  | 0603/U2J/1000pF/50V  | GRM1887U1H102JA01 | 20   |
| 19  | 0603/U2J/2200pF/50V  | GRM1887U1H222JA01 | 20   |
| 20  | 0603/U2J/3300pF/50V  | GRM1887U1H332JA01 | 20   |
| 21  | 0603/U2J/4700pF/50V  | GRM1887U1H472JA01 | 20   |
| 22  | 0603/U2J/6800pF/50V  | GRM1887U1H682JA01 | 20   |
| 23  | 0603/U2J/10000pF/50V | GRM1887U1H103JA01 | 20   |
| 24  | 0805/U2J/15000pF/50V | GRM2167U1H153JA01 | 20   |
| 25  | 0805/U2J/22000pF/50V | GRM2197U1H223JA01 | 20   |
| 26  | 0805/U2J/33000pF/50V | GRM21A7U1H333JA39 | 20   |
| 27  | 0805/U2J/47000pF/50V | GRM21B7U1H473JA01 | 20   |
| 28  | 1206/U2J/68000pF/50V | GRM31M7U1H683JA01 | 20   |
| 29  | 1206/U2J/0.1uF/50V   | GRM31M7U1H104JA01 | 20   |
| 30  | 0805/X7R/0.1uF/50V   | GRM21BR71H104KA01 | 20   |
| 31  | 0805/X7R/0.15uF/25V  | GRM21BR71E154KA01 | 20   |
| 32  | 0805/X7R/0.22uF/25V  | GRM219B71E224KA01 | 20   |
| 33  | 0805/X7R/0.33uF/50V  | GRM219R71H334KA88 | 20   |
| 34  | 0805/X7R/0.47uF/50V  | GRM21BR71H474KA88 | 20   |
| 35  | 0805/X7R/1uF/25V     | GRM21BR71E105KA99 | 20   |
| 36  | 0603/X5R/1uF/16V     | GRM188R61C105KA93 | 20   |
| 37  | 0603/X5R/1uF/10V     | GRM185R61A105KE36 | 20   |
| 38  | 0603/X5R/2.2uF/10V   | GRM188R61A225KE34 | 20   |
| 39  | 0805/X5R/1uF/16V     | GRM216R61C105KA88 | 20   |
| 40  | 0805/X5R/4.7uF/16V   | GRM21BR61C475KA88 | 20   |
| 41  | 0805/X5R/10uF/10V    | GRM21BR61A106KE19 | 20   |
| 42  | 1206/X5R/2.2uF/16V   | GRM316R61C225KA88 | 20   |
| 43  | 1206/X5R/10uF/25V    | GRM31CR61E106KA12 | 20   |
| 44  | 1206/X5R/22uF/16V    | GRM31CR61C226ME15 | 20   |
| 45  | 1206/X5R/22uF/6.3V   | GRM31CR60J226ME19 | 20   |
| 46  | 1206/X5R/100uF/6.3V  | GRM31CR60J107ME39 | 20   |
| 47  | 1210/X5R/47uF/16V    | GRM32ER61C476ME15 | 20   |

**NOTE:** For Ceramic Chip Capacitors, dashes are part of the part number and must be included when placing an order.

## GENERAL CERAMIC CHIP CAPACITORS

0402 – 1206 (25 to 50 VDC)

- Low distortion and low shock noise make these capacitors well suited for replacing film chip capacitors.
- No Polarity
- GRM series is offered with a Ni barrier termination plated with Matte Tin (Sn), and is RoHS compliant.
- Stringent dimensional tolerances allow highly reliable, high-speed automatic chip placement on PCBs.
- Temperature characteristics: C0G, and U2J

## GRM---KIT-TC-----E

| No. | Description          | Murata Global P/N | Qty. |
|-----|----------------------|-------------------|------|
| 1   | 0402/C0G/120pF/50V   | GRM1555C1H121JA01 | 20   |
| 2   | 0402/C0G/150pF/50V   | GRM1555C1H151JA01 | 20   |
| 3   | 0402/C0G/180pF/50V   | GRM1555C1H181JA01 | 20   |
| 4   | 0402/C0G/220pF/50V   | GRM1555C1H221JA01 | 20   |
| 5   | 0402/C0G/270pF/50V   | GRM1555C1H271JA01 | 20   |
| 6   | 0402/C0G/330pF/50V   | GRM1555C1H331JA01 | 20   |
| 7   | 0402/C0G/390pF/50V   | GRM1555C1H391JA01 | 20   |
| 8   | 0402/C0G/470pF/50V   | GRM1555C1H471JA01 | 20   |
| 9   | 0402/C0G/560pF/50V   | GRM1555C1H561JA01 | 20   |
| 10  | 0402/C0G/680pF/50V   | GRM1555C1H681JA01 | 20   |
| 11  | 0402/C0G/820pF/50V   | GRM1555C1H821JA01 | 20   |
| 12  | 0402/C0G/1000pF/50V  | GRM1555C1H102JA01 | 20   |
| 13  | 0603/C0G/1200pF/50V  | GRM1885C1H122JA01 | 20   |
| 14  | 0603/C0G/1500pF/50V  | GRM1885C1H152JA01 | 20   |
| 15  | 0603/C0G/1800pF/50V  | GRM1885C1H182JA01 | 20   |
| 16  | 0603/C0G/2200pF/50V  | GRM1885C1H222JA01 | 20   |
| 17  | 0603/C0G/2700pF/50V  | GRM1885C1H272JA01 | 20   |
| 18  | 0603/C0G/3300pF/50V  | GRM1885C1H332JA01 | 20   |
| 19  | 0603/C0G/3900pF/50V  | GRM1885C1H392JA01 | 20   |
| 20  | 0805/C0G/4700pF/50V  | GRM2165C1H472JA01 | 20   |
| 21  | 0805/C0G/5600pF/50V  | GRM2195C1H562JA01 | 20   |
| 22  | 0805/C0G/6800pF/50V  | GRM2195C1H682JA01 | 20   |
| 23  | 0805/C0G/8200pF/50V  | GRM2195C1H822JA01 | 20   |
| 24  | 0805/C0G/10000pF/50V | GRM2195C1H103JA01 | 20   |
| 25  | 0805/C0G/12000pF/50V | GRM2195C1H123JA01 | 20   |
| 26  | 0805/C0G/15000pF/50V | GRM2195C1H153JA01 | 20   |
| 27  | 0805/C0G/18000pF/50V | GRM21B5C1H183JA01 | 20   |
| 28  | 0805/C0G/22000pF/50V | GRM21B5C1H223JA01 | 20   |
| 29  | 1206/C0G/27000pF/50V | GRM3195C1H273JA01 | 20   |
| 30  | 1206/C0G/33000pF/50V | GRM3195C1H333JA01 | 20   |
| 31  | 1206/C0G/39000pF/50V | GRM31M5C1H393JA01 | 20   |
| 32  | 1206/C0G/47000pF/50V | GRM31C5C1H473JA01 | 20   |
| 33  | 1206/C0G/68000pF/50V | GRM31C5C1H683JA01 | 20   |
| 34  | 1206/C0G/82000pF/50V | GRM31C5C1H823JA01 | 20   |
| 35  | 1206/C0G/0.1uF/50V   | GRM31C5C1H104JA01 | 20   |
| 36  | 0603/U2J/1000pF/50V  | GRM1887U1H102JA01 | 20   |
| 37  | 0603/U2J/1200pF/50V  | GRM1887U1H122JA01 | 20   |
| 38  | 0603/U2J/1500pF/50V  | GRM1887U1H152JA01 | 20   |
| 39  | 0603/U2J/1800pF/50V  | GRM1887U1H182JA01 | 20   |
| 40  | 0603/U2J/2200pF/50V  | GRM1887U1H222JA01 | 20   |
| 41  | 0603/U2J/2700pF/50V  | GRM1887U1H272JA01 | 20   |
| 42  | 0603/U2J/3300pF/50V  | GRM1887U1H332JA01 | 20   |
| 43  | 0603/U2J/3900pF/50V  | GRM1887U1H392JA01 | 20   |
| 44  | 0603/U2J/4700pF/50V  | GRM1887U1H472JA01 | 20   |
| 45  | 0603/U2J/5600pF/50V  | GRM1887U1H562JA01 | 20   |
| 46  | 0603/U2J/6800pF/50V  | GRM1887U1H682JA01 | 20   |
| 47  | 0603/U2J/8200pF/50V  | GRM1887U1H822JA01 | 20   |

GRM---KIT-TC-----E *continued*

| No. | Description          | Murata Global P/N | Qty. |
|-----|----------------------|-------------------|------|
| 48  | 0603/U2J/10000pF/50V | GRM1887U1H103JA01 | 20   |
| 49  | 0805/U2J/12000pF/50V | GRM2167U1H123JA01 | 20   |
| 50  | 0805/U2J/15000pF/50V | GRM2167U1H153JA01 | 20   |
| 51  | 0805/U2J/18000pF/50V | GRM2167U1H183JA01 | 20   |
| 52  | 0805/U2J/22000pF/50V | GRM2197U1H223JA01 | 20   |
| 53  | 0805/U2J/27000pF/50V | GRM2197U1H273JA01 | 20   |
| 54  | 0805/U2J/33000pF/50V | GRM21A7U1H333JA39 | 20   |
| 55  | 0805/U2J/39000pF/50V | GRM21B7U1H393JA01 | 20   |
| 56  | 0805/U2J/47000pF/50V | GRM21B7U1H473JA01 | 20   |
| 57  | 1206/U2J/56000pF/50V | GRM3197U1H563JA01 | 20   |
| 58  | 1206/U2J/68000pF/50V | GRM31M7U1H683JA01 | 20   |
| 59  | 1206/U2J/82000pF/50V | GRM31M7U1H823JA01 | 20   |
| 60  | 1206/U2J/0.1uF/50V   | GRM31M7U1H104JA01 | 20   |

**NOTE:** For Ceramic Chip Capacitors, dashes are part of the part number and must be included when placing an order.

## CERAMIC CHIP CAPACITORS

## ASCAP Hi-Frequency

## 0603 (50 to 100 VDC)

- High Q and Low ESR at VHF, UHF, and Microwave Frequencies
- 0603 and 0805 sizes with Copper Inner Electrode
- Tight Tolerance Available ([W]=+/-0.05pF for <=5pF, [C]=+/-0.25pF for 5 - 9pF, [F]=+/-1% for 10 - 20pF)
- Low Power Consumption for Mobile Telecommunication
- Base Stations, Broadcast Satellite and Special Radios

## GQM18-HIQ0603KIT-E

| No. | Description          | Murata Global P/N | Qty. |
|-----|----------------------|-------------------|------|
| 1   | 0603/C0G/0.50pF/100V | GQM1885C2AR50CB01 | 20   |
| 2   | 0603/C0G/0.60pF/100V | GQM1885C2AR60CB01 | 20   |
| 3   | 0603/C0G/0.70pF/100V | GQM1885C2AR70CB01 | 20   |
| 4   | 0603/C0G/0.80pF/100V | GQM1885C2AR80CB01 | 20   |
| 5   | 0603/C0G/0.90pF/100V | GQM1885C2AR90CB01 | 20   |
| 6   | 0603/C0G/1.0pF/100V  | GQM1885C2A1R0CB01 | 20   |
| 7   | 0603/C0G/1.1pF/100V  | GQM1885C2A1R1CB01 | 20   |
| 8   | 0603/C0G/1.2pF/100V  | GQM1885C2A1R2CB01 | 20   |
| 9   | 0603/C0G/1.3pF/100V  | GQM1885C2A1R3CB01 | 20   |
| 10  | 0603/C0G/1.5pF/100V  | GQM1885C2A1R5CB01 | 20   |
| 11  | 0603/C0G/1.6pF/100V  | GQM1885C2A1R6CB01 | 20   |
| 12  | 0603/C0G/1.8pF/100V  | GQM1885C2A1R8CB01 | 20   |
| 13  | 0603/C0G/2.0pF/100V  | GQM1885C2A2R0CB01 | 20   |
| 14  | 0603/C0G/2.2pF/100V  | GQM1885C2A2R2CB01 | 20   |
| 15  | 0603/C0G/2.4pF/100V  | GQM1885C2A2R4CB01 | 20   |
| 16  | 0603/C0G/2.7pF/100V  | GQM1885C2A2R7CB01 | 20   |
| 17  | 0603/C0G/3.0pF/100V  | GQM1885C2A3R0CB01 | 20   |
| 18  | 0603/C0G/3.3pF/100V  | GQM1885C2A3R3CB01 | 20   |
| 19  | 0603/C0G/3.6pF/100V  | GQM1885C2A3R6CB01 | 20   |
| 20  | 0603/C0G/3.9pF/100V  | GQM1885C2A3R9CB01 | 20   |
| 21  | 0603/C0G/4.3pF/100V  | GQM1885C2A4R3CB01 | 20   |
| 22  | 0603/C0G/4.7pF/100V  | GQM1885C2A4R7CB01 | 20   |
| 23  | 0603/C0G/5.1pF/100V  | GQM1885C2A5R1DB01 | 20   |
| 24  | 0603/C0G/5.6pF/100V  | GQM1885C2A5R6DB01 | 20   |
| 25  | 0603/C0G/6.2pF/100V  | GQM1885C2A6R2DB01 | 20   |
| 26  | 0603/C0G/6.8pF/100V  | GQM1885C2A6R8DB01 | 20   |
| 27  | 0603/C0G/7.5pF/50V   | GQM1885C1H7R5DB01 | 20   |
| 28  | 0603/C0G/8.2pF/50V   | GQM1885C1H8R2DB01 | 20   |
| 29  | 0603/C0G/9.1pF/50V   | GQM1885C1H9R1DB01 | 20   |
| 30  | 0603/C0G/10pF/50V    | GQM1885C1H100JB01 | 20   |
| 31  | 0603/C0G/12pF/50V    | GQM1885C1H120JB01 | 20   |
| 32  | 0603/C0G/15pF/50V    | GQM1885C1H150JB01 | 20   |
| 33  | 0603/C0G/18pF/50V    | GQM1885C1H180JB01 | 20   |
| 34  | 0603/C0G/22pF/50V    | GQM1885C1H220JB01 | 20   |
| 35  | 0603/C0G/27pF/50V    | GQM1885C1H270JB01 | 20   |
| 36  | 0603/C0G/33pF/50V    | GQM1885C1H330JB01 | 20   |
| 37  | 0603/C0G/39pF/50V    | GQM1885C1H390JB01 | 20   |
| 38  | 0603/C0G/47pF/50V    | GQM1885C1H470JB01 | 20   |
| 39  | 0603/C0G/68pF/50V    | GQM1885C1H680JB01 | 20   |
| 40  | 0603/C0G/100pF/50V   | GQM1885C1H101JB01 | 20   |

## 0603 (250 VDC)

- High Q and Low ESR at VHF, UHF, and Microwave Frequencies
- 0603 size with Copper Inner Electrode
- Tight Tolerance Available ([W]=+/-0.05pF for <=5pF, [F]=+/-1% for 10 - 20pF)
- Low Power Consumption for Mobile Telecommunication
- Base Stations, Broadcast Satellite and Special Radios

## GQM18-HIQ250VKIT-E

| No. | Description          | Murata Global P/N | Qty. |
|-----|----------------------|-------------------|------|
| 1   | 0603/C0G/0.10pF/250V | GQM1875C2ER10BB12 | 20   |
| 2   | 0603/C0G/0.30pF/250V | GQM1875C2ER30BB12 | 20   |
| 3   | 0603/C0G/0.50pF/250V | GQM1875C2ER50BB12 | 20   |
| 4   | 0603/C0G/0.60pF/250V | GQM1875C2ER60BB12 | 20   |
| 5   | 0603/C0G/0.70pF/250V | GQM1875C2ER70BB12 | 20   |
| 6   | 0603/C0G/0.80pF/250V | GQM1875C2ER80BB12 | 20   |
| 7   | 0603/C0G/0.90pF/250V | GQM1875C2ER90BB12 | 20   |
| 8   | 0603/C0G/1.0pF/250V  | GQM1875C2E1R0BB12 | 20   |
| 9   | 0603/C0G/1.1pF/250V  | GQM1875C2E1R1BB12 | 20   |
| 10  | 0603/C0G/1.2pF/250V  | GQM1875C2E1R2BB12 | 20   |
| 11  | 0603/C0G/1.3pF/250V  | GQM1875C2E1R3BB12 | 20   |
| 12  | 0603/C0G/1.6pF/250V  | GQM1875C2E1R6BB12 | 20   |
| 13  | 0603/C0G/1.8pF/250V  | GQM1875C2E1R8BB12 | 20   |
| 14  | 0603/C0G/2.2pF/250V  | GQM1875C2E2R2BB12 | 20   |
| 15  | 0603/C0G/2.4pF/250V  | GQM1875C2E2R4BB12 | 20   |
| 16  | 0603/C0G/3.0pF/250V  | GQM1875C2E3R0BB12 | 20   |
| 17  | 0603/C0G/3.3pF/250V  | GQM1875C2E3R3BB12 | 20   |
| 18  | 0603/C0G/3.6pF/250V  | GQM1875C2E3R6BB12 | 20   |
| 19  | 0603/C0G/3.9pF/250V  | GQM1875C2E3R9BB12 | 20   |
| 20  | 0603/C0G/4.3pF/250V  | GQM1875C2E4R3BB12 | 20   |
| 21  | 0603/C0G/4.7pF/250V  | GQM1875C2E4R7BB12 | 20   |
| 22  | 0603/C0G/5.1pF/250V  | GQM1875C2E5R1BB12 | 20   |
| 23  | 0603/C0G/5.6pF/250V  | GQM1875C2E5R6BB12 | 20   |
| 24  | 0603/C0G/6.2pF/250V  | GQM1875C2E6R2BB12 | 20   |
| 25  | 0603/C0G/6.8pF/250V  | GQM1875C2E6R8BB12 | 20   |
| 26  | 0603/C0G/7.5pF/250V  | GQM1875C2E7R5BB12 | 20   |
| 27  | 0603/C0G/9.1pF/250V  | GQM1875C2E9R1BB12 | 20   |
| 28  | 0603/C0G/10pF/250V   | GQM1875C2E100JB12 | 20   |
| 29  | 0603/C0G/12pF/250V   | GQM1875C2E120JB12 | 20   |
| 30  | 0603/C0G/15pF/250V   | GQM1875C2E150JB12 | 20   |
| 31  | 0603/C0G/22pF/250V   | GQM1875C2E220JB12 | 20   |
| 32  | 0603/C0G/27pF/250V   | GQM1875C2E270JB12 | 20   |
| 33  | 0603/C0G/33pF/250V   | GQM1875C2E330JB12 | 20   |
| 34  | 0603/C0G/39pF/250V   | GQM1875C2E390JB12 | 20   |
| 35  | 0603/C0G/47pF/250V   | GQM1875C2E470JB12 | 20   |

## CERAMIC CHIP CAPACITORS

## ASCAP Hi-Frequency

## 0805 (50 to 100 VDC)

- High Q and Low ESR at VHF, UHF, and Microwave Frequencies
- 0603 and 0805 sizes with Copper Inner Electrode
- Tight Tolerance Available ([W]=+/-0.05pF for <=5pF, [C]=+/-0.25pF for 5 - 9pF, [F]=+/-1% for 10 - 20pF)
- Low Power Consumption for Mobile Telecommunication
- Base Stations, Broadcast Satellite and Special Radios

## GQM21-HIQ0805KIT-E

| No. | Description          | Murata Global P/N | Qty. |
|-----|----------------------|-------------------|------|
| 1   | 0805/C0G/0.50pF/100V | GQM2195C2AR50CB01 | 20   |
| 2   | 0805/C0G/0.60pF/100V | GQM2195C2AR60CB01 | 20   |
| 3   | 0805/C0G/0.70pF/100V | GQM2195C2AR70CB01 | 20   |
| 4   | 0805/C0G/0.80pF/100V | GQM2195C2AR80CB01 | 20   |
| 5   | 0805/C0G/0.90pF/100V | GQM2195C2AR90CB01 | 20   |
| 6   | 0805/C0G/1.0pF/100V  | GQM2195C2A1R0CB01 | 20   |
| 7   | 0805/C0G/1.1pF/100V  | GQM2195C2A1R1CB01 | 20   |
| 8   | 0805/C0G/1.2pF/100V  | GQM2195C2A1R2CB01 | 20   |
| 9   | 0805/C0G/1.3pF/100V  | GQM2195C2A1R3CB01 | 20   |
| 10  | 0805/C0G/1.5pF/100V  | GQM2195C2A1R5CB01 | 20   |
| 11  | 0805/C0G/1.6pF/100V  | GQM2195C2A1R6CB01 | 20   |
| 12  | 0805/C0G/1.8pF/100V  | GQM2195C2A1R8CB01 | 20   |
| 13  | 0805/C0G/2.0pF/100V  | GQM2195C2A2R0CB01 | 20   |
| 14  | 0805/C0G/2.2pF/100V  | GQM2195C2A2R2CB01 | 20   |
| 15  | 0805/C0G/2.4pF/100V  | GQM2195C2A2R4CB01 | 20   |
| 16  | 0805/C0G/2.7pF/100V  | GQM2195C2A2R7CB01 | 20   |
| 17  | 0805/C0G/3.0pF/100V  | GQM2195C2A3R0CB01 | 20   |
| 18  | 0805/C0G/3.3pF/100V  | GQM2195C2A3R3CB01 | 20   |
| 19  | 0805/C0G/3.6pF/100V  | GQM2195C2A3R6CB01 | 20   |
| 20  | 0805/C0G/3.9pF/100V  | GQM2195C2A3R9CB01 | 20   |
| 21  | 0805/C0G/4.3pF/100V  | GQM2195C2A4R3CB01 | 20   |
| 22  | 0805/C0G/4.7pF/100V  | GQM2195C2A4R7CB01 | 20   |
| 23  | 0805/C0G/5.1pF/100V  | GQM2195C2A5R1DB01 | 20   |
| 24  | 0805/C0G/5.6pF/100V  | GQM2195C2A5R6DB01 | 20   |
| 25  | 0805/C0G/6.2pF/100V  | GQM2195C2A6R2DB01 | 20   |
| 26  | 0805/C0G/6.8pF/100V  | GQM2195C2A6R8DB01 | 20   |
| 27  | 0805/C0G/7.5pF/100V  | GQM2195C2A7R5DB01 | 20   |
| 28  | 0805/C0G/8.2pF/100V  | GQM2195C2A8R2DB01 | 20   |
| 29  | 0805/C0G/9.1pF/100V  | GQM2195C2A9R1DB01 | 20   |
| 30  | 0805/C0G/10pF/100V   | GQM2195C2A100JB01 | 20   |
| 31  | 0805/C0G/12pF/100V   | GQM2195C2A120JB01 | 20   |
| 32  | 0805/C0G/15pF/100V   | GQM2195C2A150JB01 | 20   |
| 33  | 0805/C0G/18pF/100V   | GQM2195C2A180JB01 | 20   |
| 34  | 0805/C0G/22pF/50V    | GQM2195C1H220JB01 | 20   |
| 35  | 0805/C0G/27pF/50V    | GQM2195C1H270JB01 | 20   |
| 36  | 0805/C0G/33pF/50V    | GQM2195C1H330JB01 | 20   |
| 37  | 0805/C0G/39pF/50V    | GQM2195C1H390JB01 | 20   |
| 38  | 0805/C0G/47pF/50V    | GQM2195C1H470JB01 | 20   |
| 39  | 0805/C0G/68pF/50V    | GQM2195C1H680JB01 | 20   |
| 40  | 0805/C0G/100pF/50V   | GQM2195C1H101JB01 | 20   |

## 0805 (250 VDC)

- High Q and Low ESR at VHF, UHF, and Microwave Frequencies
- 0805 size (250 VDC) with Copper Inner Electrode
- Tight Tolerance Available ([W]=+/-0.05pF for <=5pF, [C]=+/-0.25pF for 5 - 9pF, [F]=+/-1% for 10 - 20pF)
- Low Power Consumption for Mobile Telecommunication
- Base Stations, Broadcast Satellite and Special Radios

## GQM21-HIQ250VKIT-E

| No. | Description          | Murata Global P/N | Qty. |
|-----|----------------------|-------------------|------|
| 1   | 0805/C0G/0.50pF/250V | GQM2195C2ER50BB12 | 20   |
| 2   | 0805/C0G/0.60pF/250V | GQM2195C2ER60BB12 | 20   |
| 3   | 0805/C0G/0.70pF/250V | GQM2195C2ER70BB12 | 20   |
| 4   | 0805/C0G/0.80pF/250V | GQM2195C2ER80BB12 | 20   |
| 5   | 0805/C0G/0.90pF/250V | GQM2195C2ER90BB12 | 20   |
| 6   | 0805/C0G/1.0pF/250V  | GQM2195C2E1R0BB12 | 20   |
| 7   | 0805/C0G/1.1pF/250V  | GQM2195C2E1R1BB12 | 20   |
| 8   | 0805/C0G/1.2pF/250V  | GQM2195C2E1R2BB12 | 20   |
| 9   | 0805/C0G/1.3pF/250V  | GQM2195C2E1R3BB12 | 20   |
| 10  | 0805/C0G/1.5pF/250V  | GQM2195C2E1R5BB12 | 20   |
| 11  | 0805/C0G/1.6pF/250V  | GQM2195C2E1R6BB12 | 20   |
| 12  | 0805/C0G/1.8pF/250V  | GQM2195C2E1R8BB12 | 20   |
| 13  | 0805/C0G/2.0pF/250V  | GQM2195C2E2R0BB12 | 20   |
| 14  | 0805/C0G/2.2pF/250V  | GQM2195C2E2R2BB12 | 20   |
| 15  | 0805/C0G/2.4pF/250V  | GQM2195C2E2R4BB12 | 20   |
| 16  | 0805/C0G/2.7pF/250V  | GQM2195C2E2R7BB12 | 20   |
| 17  | 0805/C0G/3.0pF/250V  | GQM2195C2E3R0BB12 | 20   |
| 18  | 0805/C0G/3.3pF/250V  | GQM2195C2E3R3BB12 | 20   |
| 19  | 0805/C0G/3.6pF/250V  | GQM2195C2E3R6BB12 | 20   |
| 20  | 0805/C0G/3.9pF/250V  | GQM2195C2E3R9BB12 | 20   |
| 21  | 0805/C0G/4.3pF/250V  | GQM2195C2E4R3BB12 | 20   |
| 22  | 0805/C0G/4.7pF/250V  | GQM2195C2E4R7BB12 | 20   |
| 23  | 0805/C0G/5.1pF/250V  | GQM2195C2E5R1BB12 | 20   |
| 24  | 0805/C0G/5.6pF/250V  | GQM2195C2E5R6BB12 | 20   |
| 25  | 0805/C0G/6.2pF/250V  | GQM2195C2E6R2BB12 | 20   |
| 26  | 0805/C0G/6.8pF/250V  | GQM2195C2E6R8BB12 | 20   |
| 27  | 0805/C0G/7.5pF/250V  | GQM2195C2E7R5BB12 | 20   |
| 28  | 0805/C0G/8.2pF/250V  | GQM2195C2E8R2BB12 | 20   |
| 29  | 0805/C0G/9.1pF/250V  | GQM2195C2E9R1BB12 | 20   |
| 30  | 0805/C0G/10pF/250V   | GQM2195C2E100JB12 | 20   |
| 31  | 0805/C0G/12pF/250V   | GQM2195C2E120JB12 | 20   |
| 32  | 0805/C0G/15pF/250V   | GQM2195C2E150JB12 | 20   |
| 33  | 0805/C0G/18pF/250V   | GQM2195C2E180JB12 | 20   |
| 34  | 0805/C0G/22pF/250V   | GQM2195C2E220JB12 | 20   |
| 35  | 0805/C0G/27pF/250V   | GQM2195C2E270JB12 | 20   |
| 36  | 0805/C0G/33pF/250V   | GQM2195C2E330JB12 | 20   |
| 37  | 0805/C0G/39pF/250V   | GQM2195C2E390JB12 | 20   |
| 38  | 0805/C0G/47pF/250V   | GQM2195C2E470JB12 | 20   |
| 39  | 0805/C0G/68pF/250V   | GQM2195C2E680JB12 | 20   |
| 40  | 0805/C0G/100pF/250V  | GQM2195C2E101JB12 | 20   |

## CERAMIC CHIP CAPACITORS

### ASCAP Hi-Frequency

- Miniature sizes & stable COG temperature coefficient
- Very high Q at high frequencies
- 0603, 0805 and 1210 sizes
- Low Power Consumption for Mobile Telecommunication
- Base Station, Terminal applications, Wireless equipment and High frequency radio

- Miniature sizes & stable COG temperature coefficient
- Very high Q at high frequencies
- 0603, 0805 and 1210 sizes
- Low Power Consumption for Mobile Telecommunication
- Base Station, Terminal applications, Wireless equipment and High frequency radio

#### ERB18-HIQ0603KIT-E 0603 - (250 VDC)

| No. | Description         | Murata Global P/N | Qty. |
|-----|---------------------|-------------------|------|
| 1   | 0603/COG/1.0pF/250V | ERB1885C2E1R0BDX1 | 10   |
| 2   | 0603/COG/1.1pF/250V | ERB1885C2E1R1BDX1 | 10   |
| 3   | 0603/COG/1.2pF/250V | ERB1885C2E1R2BDX1 | 10   |
| 4   | 0603/COG/1.3pF/250V | ERB1885C2E1R3BDX1 | 10   |
| 5   | 0603/COG/1.5pF/250V | ERB1885C2E1R5BDX1 | 10   |
| 6   | 0603/COG/1.6pF/250V | ERB1885C2E1R6BDX1 | 10   |
| 7   | 0603/COG/1.8pF/250V | ERB1885C2E1R8BDX1 | 10   |
| 8   | 0603/COG/2.0pF/250V | ERB1885C2E2R0BDX1 | 10   |
| 9   | 0603/COG/2.4pF/250V | ERB1885C2E2R4BDX1 | 10   |
| 10  | 0603/COG/2.7pF/250V | ERB1885C2E2R7BDX1 | 10   |
| 11  | 0603/COG/3.0pF/250V | ERB1885C2E3R0CDX1 | 10   |
| 12  | 0603/COG/3.3pF/250V | ERB1885C2E3R3CDX1 | 10   |
| 13  | 0603/COG/3.6pF/250V | ERB1885C2E3R6CDX1 | 10   |
| 14  | 0603/COG/3.9pF/250V | ERB1885C2E3R9CDX1 | 10   |
| 15  | 0603/COG/4.3pF/250V | ERB1885C2E4R3CDX1 | 10   |
| 16  | 0603/COG/4.7pF/250V | ERB1885C2E4R7CDX1 | 10   |
| 17  | 0603/COG/5.1pF/250V | ERB1885C2E5R1CDX1 | 10   |
| 18  | 0603/COG/5.6pF/250V | ERB1885C2E5R6CDX1 | 10   |
| 19  | 0603/COG/6.2pF/250V | ERB1885C2E6R2CDX1 | 10   |
| 20  | 0603/COG/6.8pF/250V | ERB1885C2E6R8CDX1 | 10   |
| 21  | 0603/COG/7.5pF/250V | ERB1885C2E7R5CDX5 | 10   |
| 22  | 0603/COG/8.2pF/250V | ERB1885C2E8R2CDX5 | 10   |
| 23  | 0603/COG/9.1pF/250V | ERB1885C2E9R1CDX5 | 10   |
| 24  | 0603/COG/10pF/250V  | ERB1885C2E100JDX5 | 10   |
| 25  | 0603/COG/12pF/250V  | ERB1885C2E120JDX5 | 10   |
| 26  | 0603/COG/15pF/250V  | ERB1885C2E150JDX5 | 10   |
| 27  | 0603/COG/18pF/250V  | ERB1885C2E180JDX5 | 10   |
| 28  | 0603/COG/22pF/250V  | ERB1885C2E220JDX5 | 10   |
| 29  | 0603/COG/27pF/250V  | ERB1885C2E270JDX5 | 10   |
| 30  | 0603/COG/33pF/250V  | ERB1885C2E330JDX5 | 10   |
| 31  | 0603/COG/39pF/250V  | ERB1885C2E390JDX5 | 10   |
| 32  | 0603/COG/47pF/250V  | ERB1885C2E470JDX5 | 10   |
| 33  | 0603/COG/56pF/250V  | ERB1885C2E560JDX5 | 10   |
| 34  | 0603/COG/68pF/250V  | ERB1885C2E680JDX5 | 10   |
| 35  | 0603/COG/82pF/250V  | ERB1885C2E820JDX5 | 10   |
| 36  | 0603/COG/100pF/250V | ERB1885C2E101JDX5 | 10   |

#### ERB21-HIQ0805KIT-E 0805 - (250VDC)

| No. | Description         | Murata Global P/N  | Qty. |
|-----|---------------------|--------------------|------|
| 1   | 0805/COG/1.2pF/250V | ERB21 B5C2E1R2CDX1 | 10   |
| 2   | 0805/COG/1.5pF/250V | ERB21 B5C2E1R5CDX1 | 10   |
| 3   | 0805/COG/1.8pF/250V | ERB21 B5C2E1R8CDX1 | 10   |
| 4   | 0805/COG/2.2pF/250V | ERB21B5C2E2R2CDX1  | 10   |
| 5   | 0805/COG/2.7pF/250V | ERB21B5C2E2R7CDX1  | 10   |
| 6   | 0805/COG/3.3pF/250V | ERB21B5C2E3R3CDX1  | 10   |
| 7   | 0805/COG/3.9pF/250V | ERB21B5C2E3R9CDX1  | 10   |
| 8   | 0805/COG/4.7pF/250V | ERB21B5C2E4R7CDX1  | 10   |
| 9   | 0805/COG/5.6pF/250V | ERB21B5C2E5R6DDX1  | 10   |
| 10  | 0805/COG/6.8pF/250V | ERB21B5C2E6R8DDX1  | 10   |
| 11  | 0805/COG/8.2pF/250V | ERB21B5C2E8R2DDX1  | 10   |
| 12  | 0805/COG/10pF/250V  | ERB21B5C2E100JDX1  | 10   |
| 13  | 0805/COG/12pF/250V  | ERB21B5C2E120JDX1  | 10   |
| 14  | 0805/COG/15pF/250V  | ERB21B5C2E150JDX1  | 10   |
| 15  | 0805/COG/18pF/250V  | ERB21B5C2E180JDX1  | 10   |
| 16  | 0805/COG/22pF/250V  | ERB21B5C2E220JDX1  | 10   |
| 17  | 0805/COG/27pF/250V  | ERB21B5C2E270JDX1  | 10   |
| 18  | 0805/COG/33pF/250V  | ERB21B5C2E330JDX1  | 10   |
| 19  | 0805/COG/39pF/250V  | ERB21B5C2E390JDX1  | 10   |
| 20  | 0805/COG/47pF/250V  | ERB21B5C2E470JDX1  | 10   |
| 21  | 0805/COG/56pF/250V  | ERB21B5C2E560JDX1  | 10   |
| 22  | 0805/COG/68pF/250V  | ERB21B5C2E680JDX1  | 10   |
| 23  | 0805/COG/82pF/250V  | ERB21B5C2E820JDX1  | 10   |
| 24  | 0805/COG/100pF/250V | ERB21B5C2E101JDX1  | 10   |

#### ERB32-HIQ1210KIT-E 1210 - (500VDC)

| No. | Description         | Murata Global P/N | Qty. |
|-----|---------------------|-------------------|------|
| 1   | 1210/COG/3.3pF/500V | ERB32Q5C2H3R3CDX1 | 10   |
| 2   | 1210/COG/3.9pF/500V | ERB32Q5C2H3R9CDX1 | 10   |
| 3   | 1210/COG/4.7pF/500V | ERB32Q5C2H4R7CDX1 | 10   |
| 4   | 1210/COG/5.6pF/500V | ERB32Q5C2H5R6DDX1 | 10   |
| 5   | 1210/COG/6.8pF/500V | ERB32Q5C2H6R8DDX1 | 10   |
| 6   | 1210/COG/8.2pF/500V | ERB32Q5C2H8R2DDX1 | 10   |
| 7   | 1210/COG/10pF/500V  | ERB32Q5C2H100JDX1 | 10   |
| 8   | 1210/COG/12pF/500V  | ERB32Q5C2H120JDX1 | 10   |
| 9   | 1210/COG/15pF/500V  | ERB32Q5C2H150JDX1 | 10   |
| 10  | 1210/COG/18pF/500V  | ERB32Q5C2H180JDX1 | 10   |
| 11  | 1210/COG/22pF/500V  | ERB32Q5C2H220JDX1 | 10   |
| 12  | 1210/COG/27pF/500V  | ERB32Q5C2H270JDX1 | 10   |
| 13  | 1210/COG/33pF/500V  | ERB32Q5C2H330JDX1 | 10   |
| 14  | 1210/COG/39pF/500V  | ERB32Q5C2H390JDX1 | 10   |
| 15  | 1210/COG/47pF/500V  | ERB32Q5C2H470JDX1 | 10   |
| 16  | 1210/COG/56pF/500V  | ERB32Q5C2H560JDX1 | 10   |
| 17  | 1210/COG/68pF/500V  | ERB32Q5C2H680JDX1 | 10   |
| 18  | 1210/COG/82pF/500V  | ERB32Q5C2H820JDX1 | 10   |
| 19  | 1210/COG/100pF/500V | ERB32Q5C2H101JDX1 | 10   |

## CERAMIC CHIP CAPACITORS

ASCAP Hi-Frequency 0505 (150 VDC)

- Miniature sizes (0505 and 1111)
- Very high Q at high frequency
- High RF power capabilities
- Impervious to environmental conditions
- Low noise
- Base stations and RF power supplies

## MA19-HIQ0505KIT- E-

| No. | Description          | Murata Global P/N | Qty. |
|-----|----------------------|-------------------|------|
| 1   | 0505/P090/0.3pF/150V | MA190R3BAB        | 5    |
| 2   | 0505/P090/0.5pF/150V | MA190R5BAB        | 5    |
| 3   | 0505/P090/0.7pF/150V | MA190R7BAB        | 5    |
| 4   | 0505/P090/1.0pF/150V | MA191R0BAB        | 5    |
| 5   | 0505/P090/1.2pF/150V | MA191R2CAB        | 5    |
| 6   | 0505/P090/1.5pF/150V | MA191R5CAB        | 5    |
| 7   | 0505/P090/1.8pF/150V | MA191R8CAB        | 5    |
| 8   | 0505/P090/2.2pF/150V | MA192R2CAB        | 5    |
| 9   | 0505/P090/2.7pF/150V | MA192R7CAB        | 5    |
| 10  | 0505/P090/3.3pF/150V | MA193R3CAB        | 5    |
| 11  | 0505/P090/3.9pF/150V | MA193R9CAB        | 5    |
| 12  | 0505/P090/4.7pF/150V | MA194R7CAB        | 5    |
| 13  | 0505/P090/5.6pF/150V | MA195R6DAB        | 5    |
| 14  | 0505/P090/6.8pF/150V | MA196R8DAB        | 5    |
| 15  | 0505/P090/8.2pF/150V | MA198R2DAB        | 5    |
| 16  | 0505/P090/10pF/150V  | MA19100JAB        | 5    |
| 17  | 0505/P090/12pF/150V  | MA19120JAB        | 5    |
| 18  | 0505/P090/15pF/150V  | MA19150JAB        | 5    |
| 19  | 0505/P090/18pF/150V  | MA19180JAB        | 5    |
| 20  | 0505/P090/22pF/150V  | MA19220JAB        | 5    |
| 21  | 0505/P090/27pF/150V  | MA19270JAB        | 5    |
| 22  | 0505/P090/33pF/150V  | MA19330JAB        | 5    |
| 23  | 0505/P090/39pF/150V  | MA19390JAB        | 5    |
| 24  | 0505/P090/47pF/150V  | MA19470JAB        | 5    |
| 25  | 0505/P090/56pF/150V  | MA19560JAB        | 5    |
| 26  | 0505/P090/68pF/150V  | MA19680JAB        | 5    |
| 27  | 0505/P090/82pF/150V  | MA19820JAB        | 5    |

1111 (50 to 500 VDC)

- Miniature sizes (0505 and 1111)
- Very high Q at high frequency
- High RF power capabilities
- Impervious to environmental conditions
- Low noise
- Base stations and RF power supplies

## MA29-HIQ1111KIT- E-

| No. | Description          | Murata Global P/N | Qty. |
|-----|----------------------|-------------------|------|
| 1   | 1111/P090/0.3pF/500V | MA290R3BAB        | 5    |
| 2   | 1111/P090/0.5pF/500V | MA290R5BAB        | 5    |
| 3   | 1111/P090/0.7pF/500V | MA290R7BAB        | 5    |
| 4   | 1111/P090/1.0pF/500V | MA291R0BAB        | 5    |
| 5   | 1111/P090/1.2pF/500V | MA291R2CAB        | 5    |
| 6   | 1111/P090/1.5pF/500V | MA291R5CAB        | 5    |
| 7   | 1111/P090/1.8pF/500V | MA291R8CAB        | 5    |
| 8   | 1111/P090/2.2pF/500V | MA292R2CAB        | 5    |
| 9   | 1111/P090/2.7pF/500V | MA292R7CAB        | 5    |
| 10  | 1111/P090/3.3pF/500V | MA293R3CAB        | 5    |
| 11  | 1111/P090/3.9pF/500V | MA293R9CAB        | 5    |
| 12  | 1111/P090/4.7pF/500V | MA294R7CAB        | 5    |
| 13  | 1111/P090/5.6pF/500V | MA295R6DAB        | 5    |
| 14  | 1111/P090/6.8pF/500V | MA296R8DAB        | 5    |
| 15  | 1111/P090/8.2pF/500V | MA298R2DAB        | 5    |
| 16  | 1111/P090/10pF/500V  | MA29100JAB        | 5    |
| 17  | 1111/P090/12pF/500V  | MA29120JAB        | 5    |
| 18  | 1111/P090/15pF/500V  | MA29150JAB        | 5    |
| 19  | 1111/P090/18pF/500V  | MA29180JAB        | 5    |
| 20  | 1111/P090/22pF/500V  | MA29220JAB        | 5    |
| 21  | 1111/P090/27pF/500V  | MA29270JAB        | 5    |
| 22  | 1111/P090/33pF/500V  | MA29330JAB        | 5    |
| 23  | 1111/P090/39pF/500V  | MA29390JAB        | 5    |
| 24  | 1111/P090/47pF/500V  | MA29470JAB        | 5    |
| 25  | 1111/P090/56pF/500V  | MA29560JAB        | 5    |
| 26  | 1111/P090/68pF/500V  | MA29680JAB        | 5    |
| 27  | 1111/P090/82pF/500V  | MA29820JAB        | 5    |
| 28  | 1111/P090/100pF/500V | MA29101JAB        | 5    |
| 29  | 1111/P090/150pF/300V | MA29151JAB        | 5    |
| 30  | 1111/P090/220pF/200V | MA29221JAB        | 5    |
| 31  | 1111/P090/330pF/200V | MA29331JAB        | 5    |
| 32  | 1111/P090/470pF/200V | MA29471JAB        | 5    |
| 33  | 1111/P090/680pF/50V  | MA29681JAB        | 5    |
| 34  | 1111/P090/1000pF/50V | MA29102JAB        | 5    |

NOTE: Custom MA20 (non-magnetic) kits are available for MRI and other Medical applications. For availability, check with your Murata Sales Contact.

## CERAMIC CHIP CAPACITORS

## ASCAP Hi-Frequency 0505 (150 VDC)

- Miniature sizes (0505 and 1111)
- Very high Q at high frequency
- High RF power capabilities
- Impervious to environmental conditions
- Low noise
- Base stations, MRI systems and RF power supplies

## MA59-HIQ0505KIT- E-

| No. | Description         | Murata Global P/N | Qty. |
|-----|---------------------|-------------------|------|
| 1   | 0505/C0G/1pF/150V   | MA591R0BAB        | 5    |
| 2   | 0505/C0G/1.5pF/150V | MA591R5CAB        | 5    |
| 3   | 0505/C0G/2.2pF/150V | MA592R2CAB        | 5    |
| 4   | 0505/C0G/3.3pF/150V | MA593R3CAB        | 5    |
| 5   | 0505/C0G/4.7pF/150V | MA594R7CAB        | 5    |
| 6   | 0505/C0G/6.8pF/150V | MA596R8DAB        | 5    |
| 7   | 0505/C0G/10pF/150V  | MA59100JAB        | 5    |
| 8   | 0505/C0G/15pF/150V  | MA59150JAB        | 5    |
| 9   | 0505/C0G/22pF/150V  | MA59220JAB        | 5    |
| 10  | 0505/C0G/33pF/150V  | MA59330JAB        | 5    |
| 11  | 0505/C0G/47pF/150V  | MA59470JAB        | 5    |
| 12  | 0505/C0G/68pF/150V  | MA59680JAB        | 5    |
| 13  | 0505/C0G/100pF/150V | MA59101JAB        | 5    |

## 1111 (50 to 500 VDC)

- Miniature sizes (0505 and 1111)
- Very high Q at high frequency
- High RF power capabilities
- Impervious to environmental conditions
- Low noise
- Base stations, MRI systems and RF power supplies

## MA69-HIQ1111KIT- E-

| No. | Description         | Murata Global P/N | Qty. |
|-----|---------------------|-------------------|------|
| 1   | 1111/C0G/1.5pF/500V | MA691R5CAB        | 5    |
| 2   | 1111/C0G/2.2pF/500V | MA692R2CAB        | 5    |
| 3   | 1111/C0G/3.3pF/500V | MA693R3CAB        | 5    |
| 4   | 1111/C0G/4.7pF/500V | MA694R7CAB        | 5    |
| 5   | 1111/C0G/6.8pF/500V | MA696R8DAB        | 5    |
| 6   | 1111/C0G/10pF/500V  | MA69100JAB        | 5    |
| 7   | 1111/C0G/15pF/500V  | MA69150JAB        | 5    |
| 8   | 1111/C0G/22pF/500V  | MA69220JAB        | 5    |
| 9   | 1111/C0G/33pF/500V  | MA69330JAB        | 5    |
| 10  | 1111/C0G/47pF/500V  | MA69470JAB        | 5    |
| 11  | 1111/C0G/68pF/500V  | MA69680JAB        | 5    |
| 12  | 1111/C0G/100pF/500V | MA69101JAB        | 5    |
| 13  | 1111/C0G/220pF/200V | MA69221JAB        | 5    |
| 14  | 1111/C0G/470pF/200V | MA69471JAB        | 5    |
| 15  | 1111/C0G/1000pF/50V | MA69102JAB        | 5    |

## CERAMIC CHIP CAPACITORS

Low ESL 0402 – 1206 (4.0 to 25 VDC)

- Low ESL. Good for noise reduction for high frequency equipment.
- Suitable for high speed IC decoupling.
- Small and high capacitance. Low profile type is available.
- 0402, 0603, 0805 and 1206 sizes

## LL-LOWESL-KIT-B – – E

| No. | Description (T=max.)          | Murata Global P/N | Qty. |
|-----|-------------------------------|-------------------|------|
| 1   | 0402/X6S/0.1uF/6.3V/T=0.35mm  | LLL153C80J104ME01 | 20   |
| 2   | 0402/X6S/0.22uF/6.3V/T=0.35mm | LLL153C80J224ME14 | 20   |
| 3   | 0603/X7R/10000pF/25V/T=0.6mm  | LLL185R71E103MA01 | 20   |
| 4   | 0603/X7R/22000pF/25V/T=0.6mm  | LLL185R71E223MA01 | 20   |
| 5   | 0603/X7R/47000pF/16V/T=0.6mm  | LLL185R71C473MA01 | 20   |
| 6   | 0603/X7R/0.1uF/10V/T=0.6mm    | LLL185R71A104MA01 | 20   |
| 7   | 0603/X7R/0.22uF/10V/T=0.6mm   | LLL185R71A224MA01 | 20   |
| 8   | 0603/X7S/0.47uF/4V/T=0.6mm    | LLL185C70G474MA01 | 20   |
| 9   | 0603/X7S/1uF/4V/T=0.55mm      | LLL185C70G105ME01 | 20   |
| 10  | 0603/X7S/2.2uF/4V/T=0.55mm    | LLL185C70G225ME01 | 20   |
| 11  | 0805/X7R/47000pF/25V/T=0.7mm  | LLL216R71E473MA01 | 20   |
| 12  | 0805/X7R/0.1uF/25V/T=0.7mm    | LLL216R71E104MA01 | 20   |
| 13  | 0805/X7R/0.22uF/16V/T=0.95mm  | LLL219R71C224MA01 | 20   |
| 14  | 0805/X7R/0.47uF/10V/T=0.95mm  | LLL219R71A474MA01 | 20   |
| 15  | 0805/X7R/1uF/6.3V/T=0.95mm    | LLL219R70J105MA01 | 20   |
| 16  | 0805/X7R/22000pF/25V/T=0.5mm  | LLL215R71E223MA11 | 20   |
| 17  | 0805/X7R/47000pF/16V/T=0.5mm  | LLL215R71C473MA11 | 20   |
| 18  | 0805/X7R/0.1uF/16V/T=0.5mm    | LLL215R71C104MA11 | 20   |
| 19  | 0805/X7R/0.22uF/10V/T=0.5mm   | LLL215R71A224MA11 | 20   |
| 20  | 1206/X7R/0.22uF/25V/T=1.25mm  | LLL31MR71E224MA01 | 20   |
| 21  | 1206/X7R/0.47uF/16V/T=0.75mm  | LLL317R71C474MA01 | 20   |
| 22  | 1206/X7R/1uF/16V/T=1.25mm     | LLL31MR71C105MA01 | 20   |
| 23  | 1206/X7R/2.2uF/10V/T=1.25mm   | LLL31MR71A225MA01 | 20   |
| 24  | 1206/X5R/10uF/4V/T=1.25mm     | LLL31MR60J106ME01 | 20   |
| 25  | 1206/X7R/47000pF/25V/T=0.5mm  | LLL315R71E473MA11 | 20   |
| 26  | 1206/X7R/0.1uF/25V/T=0.5mm    | LLL315R71E104MA11 | 20   |
| 27  | 1206/X7R/0.22uF/16V/T=0.5mm   | LLL315R71C224MA11 | 20   |
| 28  | 1206/X7R/0.47uF/10V/T=0.5mm   | LLL315R71A474MA11 | 20   |
| 29  | 0603/X7S/0.47uF/4V/T=0.55mm   | LLA185C70G474MA01 | 20   |
| 30  | 0603/X7S/1uF/4V/T=0.55mm      | LLA185C70G105ME01 | 20   |
| 31  | 0603/X7S/2.2uF/4V/T=0.55mm    | LLA185C70G225ME16 | 20   |
| 32  | 0805/X7R/1uF/6.3V/T=0.95mm    | LLA219R70J105MA01 | 20   |
| 33  | 0805/X7R/10000pF/25V/T=0.55mm | LLA215R71E103MA14 | 20   |
| 34  | 0805/X7R/0.1uF/16V/T=0.55mm   | LLA215R71C104MA14 | 20   |
| 35  | 0805/X7R/0.22uF/6.3V/T=0.55mm | LLA215R70J224MA14 | 20   |
| 36  | 0805/X7R/0.47uF/6.3V/T=0.55mm | LLA215R70J474MA14 | 20   |
| 37  | 0805/X7S/1uF/4V/T=0.55mm      | LLA215C70G105MA14 | 20   |
| 38  | 0805/X7S/2.2uF/4V/T=0.55mm    | LLA215C70G225ME11 | 20   |
| 39  | 0805/X7S/4.7uF/4V/T=0.55mm    | LLA215C70G475ME19 | 20   |
| 40  | 1206/X7R/0.47uF/16V/T=0.95mm  | LLA319R71C474MA01 | 20   |
| 41  | 1206/X7R/1uF/16V/T=1.25mm     | LLA31MR71C105MA01 | 20   |
| 42  | 1206/X7R/2.2uF/10V/T=1.25mm   | LLA31MR71A225MA01 | 20   |
| 43  | 1206/X7R/0.22uF/16V/T=0.55mm  | LLA315R71C224MA14 | 20   |
| 44  | 1206/X7R/0.47uF/10V/T=0.55mm  | LLA315R71A474MA14 | 20   |
| 45  | 1206/X7R/1uF/6.3V/T=0.55mm    | LLA315R70J105MA14 | 20   |
| 46  | 1206/X7R/2.2uF/6.3V/T=0.55mm  | LLA315R70J225MA14 | 20   |
| 47  | 0805/X7S/1uF/4V/T=0.55mm      | LLM215C70G105MA11 | 20   |
| 48  | 0805/X7S/2.2uF/4V/T=0.55mm    | LLM215C70G225ME11 | 20   |
| 49  | 1206/X7R/2.2uF/6.3V/T=0.55mm  | LLM315R70J225MA11 | 20   |

LLL Standard 2 Terminal  
(Reversed Geometry Low ESL Type)

- Low ESL: 150 to 250pH. Suitable for noise reduction at high frequencies (> 200MHz)
- Operating Temperature:  
X7R -55°C to 125°C with a  $\pm 15\%$  cap change over temp range  
X7S -55°C to 125°C with a  $\pm 22\%$  cap change over temp range

## LLA Eight Terminal (Low ESL Type)

- Lower ESL: 80 to 120pH. Suitable for high speed (800MHz to 4GHz) IC decoupling
- Operating Temperature:  
X7R -55°C to 125°C with a  $\pm 15\%$  cap change over temp range  
X7S -55°C to 125°C with a  $\pm 22\%$  cap change over temp range

## LLM Ten Terminal (Low ESL Type)

- Lowest ESL: 35 to 45pH. Suitable for high speed (1GHz to 4GHz) IC decoupling
- Operating Temperature:  
X7R -55°C to 125°C with a  $\pm 15\%$  cap change over temp range  
X7S -55°C to 125°C with a  $\pm 22\%$  cap change over temp range

**NOTE:** For Ceramic Chip Capacitors, dashes are part of the part number and must be included when placing an order.

## CERAMIC CHIP CAPACITORS

ASCAP Cap Arrays 0504 – 1206 (10 to 50 VDC)

- Mounting cost saving (one placement instead of four or two).
- High density mounting due to mounting space saving.
- Four or two element capacitors in one chip.
- 0504, 0805 and 1206 sizes

## GNM-CARRAY-KIT-B-E

| No. | Description          | Murata Global P/N | Qty. |
|-----|----------------------|-------------------|------|
| 1   | 0302/X5R/0.1pF/16V   | GNM0M2R61C104ME18 | 20   |
| 2   | 0504/X7R/1000pF/50V  | GNM1M2R71H102MA01 | 20   |
| 3   | 0504/X7R/10000pF/25V | GNM1M2R71E103MA01 | 20   |
| 4   | 0504/X7R/0.1uF/16V   | GNM1M2R71C104MA01 | 20   |
| 5   | 0504/X7R/0.1uF/16V   | GNM1M2R71C104MAA1 | 20   |
| 6   | 0504/X5R/1uF/16V     | GNM1M2R61C105ME18 | 20   |
| 7   | 0504/X5R/1uF/10V     | GNM1M2R61C105MEA2 | 20   |
| 8   | 0805/X5R/1uF/16V     | GNM212R61C105MA16 | 20   |
| 9   | 0805/X5R/2.2uF/10V   | GNM212R61A225ME16 | 20   |
| 10  | 0805/X7R/1000pF/50V  | GNM214R71H102MA01 | 20   |
| 11  | 0805/X7R/10000pF/25V | GNM214R71E103MA01 | 20   |
| 12  | 0805/X7R/0.1uF/16V   | GNM214R71C104MA01 | 20   |
| 13  | 0805/X7R/0.1uF/16V   | GNM214R71C104MAA1 | 20   |
| 14  | 0805/X5R/1uF/10V     | GNM214R61A105ME17 | 20   |
| 15  | 0504/C0G/10pF/50V    | GNM1M25C1H100KD01 | 20   |
| 16  | 0504/C0G/15pF/50V    | GNM1M25C1H150KD01 | 20   |
| 17  | 0504/C0G/22pF/50V    | GNM1M25C1H220KD01 | 20   |
| 18  | 0504/C0G/33pF/50V    | GNM1M25C1H330KD01 | 20   |
| 19  | 0504/C0G/47pF/50V    | GNM1M25C1H470KD01 | 20   |
| 20  | 0504/C0G/68p/50V     | GNM1M25C1H680KD01 | 20   |
| 21  | 0504/C0G/100pF/50V   | GNM1M25C1H101KD01 | 20   |
| 22  | 0504/C0G/150pF/50V   | GNM1M25C1H151KD01 | 20   |
| 23  | 0504/C0G/220pF/50V   | GNM1M25C1H221KD01 | 20   |
| 24  | 0805/C0G/10pF/50V    | GNM2145C1H100KD01 | 20   |
| 25  | 0805/C0G/15pF/50V    | GNM2145C1H150KD01 | 20   |
| 26  | 0805/C0G/22pF/50V    | GNM2145C1H220KD01 | 20   |
| 27  | 0805/C0G/33pF/50V    | GNM2145C1H330KD01 | 20   |
| 28  | 0805/C0G/47pF/50V    | GNM2145C1H470KD01 | 20   |
| 29  | 0805/C0G/68pF/50V    | GNM2145C1H680KD01 | 20   |
| 30  | 0805/C0G/100pF/50V   | GNM2145C1H101KD01 | 20   |
| 31  | 0805/C0G/150pF/50V   | GNM2145C1H151KD01 | 20   |
| 32  | 0805/C0G/220pF/50V   | GNM2145C1H221KD01 | 20   |

## CERAMIC CHIP CAPACITORS

Automotive Grade 0402 (16 to 50 VDC)

- GCM series is for power-train and automotive safety equipment. GRM series is available for other automotive equipment such as comfort, security, information and entertainment.
- GCM series meets AEC-Q200 requirements.
- GCM series is offered with a Ni barrier termination plated with Matte Tin (Sn), and is RoHS compliant.
- No polarity
- Stringent dimensional tolerances allow highly reliable, high speed automatic chip placement on PCBs.
- GCM ultra small series is suitable for TPMS or RKE applications.

## GCM15-KIT- - - - - A

| No. | Description          | Murata Global P/N | Qty. |
|-----|----------------------|-------------------|------|
| 1   | 0402/C0G/1.0pF/50V   | GCM1555C1H1R0CZ13 | 20   |
| 2   | 0402/C0G/2.0pF/50V   | GCM1555C1H2R0CZ13 | 20   |
| 3   | 0402/C0G/3.0pF/50V   | GCM1555C1H3R0CZ13 | 20   |
| 4   | 0402/C0G/4.0pF/50V   | GCM1555C1H4R0CZ13 | 20   |
| 5   | 0402/C0G/5.0pF/50V   | GCM1555C1H5R0CZ13 | 20   |
| 6   | 0402/C0G/6.0pF/50V   | GCM1555C1H6R0DZ13 | 20   |
| 7   | 0402/C0G/7.0pF/50V   | GCM1555C1H7R0DZ13 | 20   |
| 8   | 0402/C0G/8.0pF/50V   | GCM1555C1H8R0DZ13 | 20   |
| 9   | 0402/C0G/9.0pF/50V   | GCM1555C1H9R0DZ13 | 20   |
| 10  | 0402/C0G/10pF/50V    | GCM1555C1H100JZ13 | 20   |
| 11  | 0402/C0G/12pF/50V    | GCM1555C1H120JZ13 | 20   |
| 12  | 0402/C0G/15pF/50V    | GCM1555C1H150JZ13 | 20   |
| 13  | 0402/C0G/18pF/50V    | GCM1555C1H180JZ13 | 20   |
| 14  | 0402/C0G/22pF/50V    | GCM1555C1H220JZ13 | 20   |
| 15  | 0402/C0G/27pF/50V    | GCM1555C1H270JZ13 | 20   |
| 16  | 0402/C0G/33pF/50V    | GCM1555C1H330JZ13 | 20   |
| 17  | 0402/C0G/39pF/50V    | GCM1555C1H390JZ13 | 20   |
| 18  | 0402/C0G/47pF/50V    | GCM1555C1H470JZ13 | 20   |
| 19  | 0402/C0G/56pF/50V    | GCM1555C1H560JZ13 | 20   |
| 20  | 0402/C0G/68pF/50V    | GCM1555C1H680JZ13 | 20   |
| 21  | 0402/C0G/82pF/50V    | GCM1555C1H820JZ13 | 20   |
| 22  | 0402/C0G/100pF/50V   | GCM1555C1H101JZ13 | 20   |
| 23  | 0402/C0G/120pF/50V   | GCM1555C1H121JA16 | 20   |
| 24  | 0402/C0G/150pF/50V   | GCM1555C1H151JA16 | 20   |
| 25  | 0402/C0G/180pF/50V   | GCM1555C1H181JA16 | 20   |
| 26  | 0402/C0G/220pF/50V   | GCM1555C1H221JA16 | 20   |
| 27  | 0402/C0G/270pF/50V   | GCM1555C1H271JA16 | 20   |
| 28  | 0402/C0G/330pF/50V   | GCM1555C1H331JA16 | 20   |
| 29  | 0402/C0G/390pF/50V   | GCM1555C1H391JA16 | 20   |
| 30  | 0402/C0G/470pF/50V   | GCM1555C1H471JA16 | 20   |
| 31  | 0402/X7R/220pF/50V   | GCM155R71H221KA37 | 20   |
| 32  | 0402/X7R/330pF/50V   | GCM155R71H331KA37 | 20   |
| 33  | 0402/X7R/470pF/50V   | GCM155R71H471KA37 | 20   |
| 34  | 0402/X7R/680pF/50V   | GCM155R71H681KA37 | 20   |
| 35  | 0402/X7R/1000pF/50V  | GCM155R71H102KA37 | 20   |
| 36  | 0402/X7R/1500pF/50V  | GCM155R71H152KA37 | 20   |
| 37  | 0402/X7R/2200pF/50V  | GCM155R71H222KA37 | 20   |
| 38  | 0402/X7R/3300pF/50V  | GCM155R71H332KA37 | 20   |
| 39  | 0402/X7R/4700pF/50V  | GCM155R71H472KA37 | 20   |
| 40  | 0402/X7R/6800pF/50V  | GCM155R71H682KA55 | 20   |
| 41  | 0402/X7R/10000pF/50V | GCM155R71H103KA55 | 20   |
| 42  | 0402/X7R/10000pF/25V | GCM155R71E103KA37 | 20   |
| 43  | 0402/X7R/15000pF/50V | GCM155R71H153KA55 | 20   |
| 44  | 0402/X7R/15000pF/25V | GCM155R71E153KA55 | 20   |
| 45  | 0402/X7R/22000pF/50V | GCM155R71H223KA55 | 20   |
| 46  | 0402/X7R/22000pF/25V | GCM155R71E223KA55 | 20   |
| 47  | 0402/X7R/33000pF/25V | GCM155R71E333KA55 | 20   |

## GCM15-KIT- - - - - A continued

| No. | Description          | Murata Global P/N | Qty. |
|-----|----------------------|-------------------|------|
| 48  | 0402/X7R/47000pF/25V | GCM155R71E473KA55 | 20   |
| 49  | 0402/X7R/68000pF/16V | GCM155R71C683KA55 | 20   |
| 50  | 0402/X7R/0.1uF/16V   | GCM155R71C104KA55 | 20   |

**NOTE:** For Ceramic Chip Capacitors, dashes are part of the part number and must be included when placing an order.

## CERAMIC CHIP CAPACITORS

Automotive Grade 0603 – 1206 (50 VDC)

- GCM series is for power-train and automotive safety equipment. GRM series is available for other automotive equipment such as comfort, security, information and entertainment.
- GCM series meets AEC-Q200 requirements.
- GCM series is offered with a Ni barrier termination plated with Matte Tin (Sn), and is RoHS compliant.
- No polarity
- Stringent dimensional tolerances allow highly reliable, high speed automatic chip placement on PCBs.

## GCM – – – KIT-C0G – – – A

| No. | Description          | Murata Global P/N | Qty. |
|-----|----------------------|-------------------|------|
| 1   | 0402/C0G/1.0pF/50V   | GCM1555C1H1R0CZ13 | 20   |
| 1   | 0603/C0G/1.0pF/50V   | GCM1885C1H1R0CZ13 | 20   |
| 2   | 0603/C0G/2.0pF/50V   | GCM1885C1H2R0CZ13 | 20   |
| 3   | 0603/C0G/3.0pF/50V   | GCM1885C1H3R0CZ13 | 20   |
| 4   | 0603/C0G/4.0pF/50V   | GCM1885C1H4R0CZ13 | 20   |
| 5   | 0603/C0G/5.0pF/50V   | GCM1885C1H5R0CZ13 | 20   |
| 6   | 0603/C0G/6.0pF/50V   | GCM1885C1H6R0DZ13 | 20   |
| 7   | 0603/C0G/7.0pF/50V   | GCM1885C1H7R0DZ13 | 20   |
| 8   | 0603/C0G/8.0pF/50V   | GCM1885C1H8R0DZ13 | 20   |
| 9   | 0603/C0G/9.0pF/50V   | GCM1885C1H9R0DZ13 | 20   |
| 10  | 0603/C0G/10pF/50V    | GCM1885C1H100JA16 | 20   |
| 11  | 0603/C0G/12pF/50V    | GCM1885C1H120JA16 | 20   |
| 12  | 0603/C0G/15pF/50V    | GCM1885C1H150JA16 | 20   |
| 13  | 0603/C0G/18pF/50V    | GCM1885C1H180JA16 | 20   |
| 14  | 0603/C0G/22pF/50V    | GCM1885C1H220JA16 | 20   |
| 15  | 0603/C0G/27pF/50V    | GCM1885C1H270JA16 | 20   |
| 16  | 0603/C0G/33pF/50V    | GCM1885C1H330JA16 | 20   |
| 17  | 0603/C0G/39pF/50V    | GCM1885C1H390JA16 | 20   |
| 18  | 0603/C0G/47pF/50V    | GCM1885C1H470JA16 | 20   |
| 19  | 0603/C0G/56pF/50V    | GCM1885C1H560JA16 | 20   |
| 20  | 0603/C0G/68pF/50V    | GCM1885C1H680JA16 | 20   |
| 21  | 0603/C0G/82pF/50V    | GCM1885C1H820JA16 | 20   |
| 22  | 0603/C0G/100pF/50V   | GCM1885C1H101JA16 | 20   |
| 23  | 0603/C0G/120pF/50V   | GCM1885C1H121JA16 | 20   |
| 24  | 0603/C0G/150pF/50V   | GCM1885C1H151JA16 | 20   |
| 25  | 0603/C0G/180pF/50V   | GCM1885C1H181JA16 | 20   |
| 26  | 0603/C0G/220pF/50V   | GCM1885C1H221JA16 | 20   |
| 27  | 0603/C0G/270pF/50V   | GCM1885C1H271JA16 | 20   |
| 28  | 0603/C0G/330pF/50V   | GCM1885C1H331JA16 | 20   |
| 29  | 0603/C0G/390pF/50V   | GCM1885C1H391JA16 | 20   |
| 30  | 0603/C0G/470pF/50V   | GCM1885C1H471JA16 | 20   |
| 31  | 0603/C0G/560pF/50V   | GCM1885C1H561JA16 | 20   |
| 32  | 0603/C0G/680pF/50V   | GCM1885C1H681JA16 | 20   |
| 33  | 0603/C0G/820pF/50V   | GCM1885C1H821JA16 | 20   |
| 34  | 0603/C0G/1000pF/50V  | GCM1885C1H102JA16 | 20   |
| 35  | 0603/C0G/1200pF/50V  | GCM1885C1H122JA16 | 20   |
| 36  | 0603/C0G/1500pF/50V  | GCM1885C1H152JA16 | 20   |
| 37  | 0603/C0G/1800pF/50V  | GCM1885C1H182JA16 | 20   |
| 38  | 0603/C0G/2200pF/50V  | GCM1885C1H222JA16 | 20   |
| 39  | 0603/C0G/2700pF/50V  | GCM1885C1H272JA16 | 20   |
| 40  | 0805/C0G/3300pF/50V  | GCM1885C1H332JA16 | 20   |
| 41  | 0805/C0G/3900pF/50V  | GCM1885C1H392JA16 | 20   |
| 42  | 0805/C0G/4700pF/50V  | GCM2165C1H472JA16 | 20   |
| 43  | 0805/C0G/5600pF/50V  | GCM2195C1H562JA16 | 20   |
| 44  | 0805/C0G/6800pF/50V  | GCM2195C1H682JA16 | 20   |
| 45  | 0805/C0G/8200pF/50V  | GCM2195C1H822JA16 | 20   |
| 46  | 0805/C0G/10000pF/50V | GCM2195C1H103JA16 | 20   |
| 47  | 1206/C0G/12000pF/50V | GCM2195C1H123JA16 | 20   |

## GCM – – – KIT-C0G – – – A continued

| No. | Description          | Murata Global P/N | Qty. |
|-----|----------------------|-------------------|------|
| 48  | 1206/C0G/15000pF/50V | GCM2195C1H153JA16 | 20   |
| 49  | 1206/C0G/18000pF/50V | GCM21B5C1H183JA16 | 20   |
| 50  | 1206/C0G/22000pF/50V | GCM21B5C1H223JA16 | 20   |
| 51  | 1206/C0G/27000pF/50V | GCM3195C1H273JA16 | 20   |
| 52  | 1206/C0G/33000pF/50V | GCM3195C1H333JA16 | 20   |
| 53  | 1206/C0G/39000pF/50V | GCM3195C1H393JA16 | 20   |
| 54  | 1206/C0G/47000pF/50V | GCM31M5C1H473JA16 | 20   |
| 55  | 1206/C0G/56000pF/50V | GCM31M5C1H563JA16 | 20   |
| 56  | 1206/C0G/68000pF/50V | GCM31C5C1H683JA16 | 20   |
| 57  | 1206/C0G/82000pF/50V | GCM31C5C1H823JA16 | 20   |
| 58  | 1206/C0G/0.1uF/50V   | GCM31C5C1H104JA16 | 20   |

NOTE: For Ceramic Chip Capacitors, dashes are part of the part number and must be included when placing an order.

# CERAMIC CHIP CAPACITORS

Automotive Grade 0603 – 1210 (10 to 50 VDC)

- GCM series is for power-train and automotive safety equipment. GRM series is available for other automotive equipment such as comfort, security, information and entertainment.
- GCM series meets AEC-Q200 requirements.
- GCM series is offered with a Ni barrier termination plated with Matte Tin (Sn), and is RoHS compliant.
- TA chip capacitor replacement product lineup is available in X7R (X7S) temperature characteristics.
- No polarity
- Stringent dimensional tolerances allow highly reliable, high speed automatic chip placement on PCBs.

## GCM — — — KIT-X7R — — — A

| No. | Description          | Murata Global P/N | Qty. |
|-----|----------------------|-------------------|------|
| 1   | 0603/X7R/1000pF/50V  | GCM188R71H102KA37 | 20   |
| 2   | 0603/X7R/1500pF/50V  | GCM188R71H152KA37 | 20   |
| 3   | 0603/X7R/2200pF/50V  | GCM188R71H222KA37 | 20   |
| 4   | 0603/X7R/3300pF/50V  | GCM188R71H332KA37 | 20   |
| 5   | 0603/X7R/4700pF/50V  | GCM188R71H472KA37 | 20   |
| 6   | 0603/X7R/6800pF/50V  | GCM188R71H682KA37 | 20   |
| 7   | 0603/X7R/10000pF/50V | GCM188R71H103KA37 | 20   |
| 8   | 0603/X7R/15000pF/50V | GCM188R71H153KA37 | 20   |
| 9   | 0603/X7R/22000pF/50V | GCM188R71H223KA37 | 20   |
| 10  | 0603/X7R/33000pF/50V | GCM188R71H333KA55 | 20   |
| 11  | 0603/X7R/47000pF/50V | GCM188R71H473KA55 | 20   |
| 12  | 0603/X7R/68000pF/50V | GCM188R71H683KA57 | 20   |
| 13  | 0603/X7R/0.1uF/50V   | GCM188R71H104KA57 | 20   |
| 14  | 0603/X7R/0.15uF/25V  | GCM188R71E154KA37 | 20   |
| 15  | 0603/X7R/0.22uF/50V  | GCM188R71H224KA64 | 20   |
| 16  | 0603/X7R/0.22uF/25V  | GCM188R71E224KA55 | 20   |
| 17  | 0603/X7R/0.47uF/25V  | GCM188R71E474KA64 | 20   |
| 18  | 0603/X7R/0.47uF/16V  | GCM188R71C474KA55 | 20   |
| 19  | 0603/X7R/1uF/25V     | GCM188R71E105KA64 | 20   |
| 20  | 0603/X7R/1uF/16V     | GCM188R71C105KA64 | 20   |
| 21  | 0603/X7R/2.2uF/6.3V  | GCM188R70J225KE22 | 20   |
| 22  | 0805/X7R/0.22uF/50V  | GCM21BR71H224KA37 | 20   |
| 23  | 0805/X7R/0.47uF/50V  | GCM21BR71H474KA55 | 20   |
| 24  | 0805/X7R/1uF/35V     | GCM21BR7YA105KA55 | 20   |
| 25  | 0805/X7R/1uF/25V     | GCM21BR71E105KA56 | 20   |
| 26  | 0805/X7R/1uF/16V     | GCM219R71C105KA37 | 20   |
| 27  | 0805/X7R/2.2uF/25V   | GCM21BR71E225KA73 | 20   |
| 28  | 0805/X7R/2.2uF/16V   | GCM21BR71C225KA64 | 20   |
| 29  | 0805/X7R/4.7uF/16V   | GCM21BR71C475KA73 | 20   |
| 30  | 0805/X7R/10uF/6.3V   | GCM21BR70J106KE22 | 20   |
| 31  | 1206/X7R/1uF/50V     | GCM31MR71H105KA55 | 20   |
| 32  | 1206/X7R/2.2uF/50V   | GCM31CR71H225KA55 | 20   |
| 33  | 1206/X7R/2.2uF/25V   | GCM31MR71E225KA57 | 20   |
| 34  | 1206/X7R/4.7uF/25V   | GCM31CR71E475KA55 | 20   |
| 35  | 1206/X7R/10uF/16V    | GCM31CR71C106KA64 | 20   |
| 36  | 1206/X7R/10uF/10V    | GCM31CR71A106KA64 | 20   |
| 37  | 1206/X7R/22uF/6.3V   | GCM31CR70J226KE23 | 20   |
| 38  | 1210/X7R/4.7uF/50V   | GCM32ER71H475KA55 | 20   |
| 39  | 1210/X7R/10uF/25V    | GCM32ER71E106KA57 | 20   |
| 40  | 1210/X7R/22uF/16V    | GCM32ER71C226KE19 | 20   |
| 41  | 1210/X7R/22uF/10V    | GCM32ER71A226KE12 | 20   |
| 42  | 1210/X7R/47uF/6.3V   | GCM32ER70J476KE19 | 20   |

**NOTE:** For Ceramic Chip Capacitors, dashes are part of the part number and must be included when placing an order.

## CERAMIC CHIP CAPACITORS

Automotive Grade 0603 – 1206 (100 VDC)

- GCM series is for power-train and automotive safety equipment. GRM series is available for other automotive equipment such as comfort, security, information and entertainment.
- GCM series meets AEC-Q200 requirements.
- GCM series is offered with a Ni barrier termination plated with Matte Tin (Sn), and is RoHS compliant.
- No polarity
- Stringent dimensional tolerances allow highly reliable, high speed automatic chip placement on PCBs.

## GCM — — — KIT-100V — — — A

| No. | Description           | Murata Global P/N | Qty. |
|-----|-----------------------|-------------------|------|
| 1   | 0603/C0G/10pF/100V    | GCM1885C2A100JA17 | 20   |
| 2   | 0603/C0G/12pF/100V    | GCM1885C2A120JA17 | 20   |
| 3   | 0603/C0G/15pF/100V    | GCM1885C2A150JA17 | 20   |
| 4   | 0603/C0G/18pF/100V    | GCM1885C2A180JA17 | 20   |
| 5   | 0603/C0G/22pF/100V    | GCM1885C2A220JA17 | 20   |
| 6   | 0603/C0G/27pF/100V    | GCM1885C2A270JA17 | 20   |
| 7   | 0603/C0G/33pF/100V    | GCM1885C2A330JA17 | 20   |
| 8   | 0603/C0G/39pF/100V    | GCM1885C2A390JA17 | 20   |
| 9   | 0603/C0G/47pF/100V    | GCM1885C2A470JA17 | 20   |
| 10  | 0603/C0G/56pF/100V    | GCM1885C2A560JA17 | 20   |
| 11  | 0603/C0G/68pF/100V    | GCM1885C2A680JA17 | 20   |
| 12  | 0603/C0G/82pF/100V    | GCM1885C2A820JA17 | 20   |
| 13  | 0603/C0G/100pF/100V   | GCM1885C2A101JA17 | 20   |
| 14  | 0603/C0G/120pF/100V   | GCM1885C2A121JA17 | 20   |
| 15  | 0603/C0G/150pF/100V   | GCM1885C2A151JA17 | 20   |
| 16  | 0603/C0G/180pF/100V   | GCM1885C2A181JA17 | 20   |
| 17  | 0603/C0G/220pF/100V   | GCM1885C2A221JA17 | 20   |
| 18  | 0603/C0G/270pF/100V   | GCM1885C2A271JA17 | 20   |
| 19  | 0603/C0G/330pF/100V   | GCM1885C2A331JA17 | 20   |
| 20  | 0603/C0G/390pF/100V   | GCM1885C2A391JA17 | 20   |
| 21  | 0603/C0G/470pF/100V   | GCM1885C2A471JA17 | 20   |
| 22  | 0603/C0G/560pF/100V   | GCM1885C2A561JA17 | 20   |
| 23  | 0603/C0G/680pF/100V   | GCM1885C2A681JA17 | 20   |
| 24  | 0603/C0G/820pF/100V   | GCM1885C2A821JA17 | 20   |
| 25  | 0603/C0G/1000pF/100V  | GCM1885C2A102JA17 | 20   |
| 26  | 0603/C0G/1200pF/100V  | GCM1885C2A122JA17 | 20   |
| 27  | 0603/C0G/1500pF/100V  | GCM1885C2A152JA17 | 20   |
| 28  | 0805/C0G/1800pF/100V  | GCM2165C2A182JA17 | 20   |
| 29  | 0805/C0G/2200pF/100V  | GCM2165C2A222JA17 | 20   |
| 30  | 0805/C0G/2700pF/100V  | GCM2165C2A272JA17 | 20   |
| 31  | 0805/C0G/3300pF/100V  | GCM2165C2A332JA17 | 20   |
| 32  | 1206/C0G/3900pF/100V  | GCM3195C2A392JA17 | 20   |
| 33  | 1206/C0G/4700pF/100V  | GCM3195C2A472JA17 | 20   |
| 34  | 1206/C0G/5600pF/100V  | GCM3195C2A562JA17 | 20   |
| 35  | 0603/X7R/1000pF/100V  | GCM3195C2A682JA17 | 20   |
| 36  | 1206/C0G/8200pF/100V  | GCM3195C2A822JA17 | 20   |
| 37  | 1206/C0G/10000pF/100V | GCM3195C2A103JA17 | 20   |
| 38  | 1206/C0G/6800pF/100V  | GCM188R72A102KA38 | 20   |
| 39  | 0603/X7R/1500pF/100V  | GCM188R72A152KA38 | 20   |
| 40  | 0603/X7R/2200pF/100V  | GCM188R72A222KA38 | 20   |
| 41  | 0603/X7R/3300pF/100V  | GCM188R72A332KA38 | 20   |
| 42  | 0603/X7R/4700pF/100V  | GCM188R72A472KA38 | 20   |
| 43  | 0603/X7R/6800pF/100V  | GCM188R72A682KA38 | 20   |
| 44  | 0603/X7R/10000pF/100V | GCM188R72A103KA38 | 20   |
| 45  | 0603/X7R/15000pF/100V | GCM188R72A153KA38 | 20   |
| 46  | 0603/X7R/22000pF/100V | GCM188R72A223KA38 | 20   |
| 47  | 0603/X7R/0.1uF/100V   | GCM188R72A104KA65 | 20   |
| 48  | 0805/X7R/33000pF/100V | GCM219R72A333KA38 | 20   |

## GCM — — — KIT-100V — — — A continued

| No. | Description           | Murata Global P/N | Qty. |
|-----|-----------------------|-------------------|------|
| 49  | 0805/X7R/47000pF/100V | GCM21BR72A473KA38 | 20   |
| 50  | 0805/X7R/68000pF/100V | GCM21BR72A683KA38 | 20   |
| 51  | 0805/X7R/0.1uF/100V   | GCM21BR72A104KA38 | 20   |
| 52  | 1206/X7R/0.15uF/100V  | GCM31MR72A154KA38 | 20   |
| 53  | 1206/X7R/0.22uF/100V  | GCM31MR72A224KA38 | 20   |

NOTE: For Ceramic Chip Capacitors, dashes are part of the part number and must be included when placing an order.

## RADIAL LEADED MONOLITHIC CERAMIC CHIP CAPACITORS (25 to 630 VDC)

### RPE 100 VDC and less for Commercial and Automotive applications

For availability check with your Murata Sales Contact. Part numbers in kits depend on application.

- Small dimensions, large capacitance, and a capacity volume ratio of 10 $\mu$ F/cm cube, close to that of electrolytic capacitors. These do not have polarity.
- Excellent frequency characteristics and due to these small internal inductance are suitable for high frequency.
- Epoxy coated type which are not highly flammable, having characteristics equivalent to the UL94V-0 standard.
- No polarity
- Stringent dimensional tolerances allow highly reliable, high speed automatic chip placement on PCBs.

### RDE 25, 50, 100, 250 and 630 VDC for Commercial applications only

For availability check with your Murata Sales Contact. Part numbers in kits depend on application.

- Small size and large capacitance
- Low ESR characteristics for high frequency
- Epoxy coated type which are not highly flammable, having characteristics equivalent to the UL94V-0 standard.
- No polarity
- Application only for consumer electronics equipment.

## MEDIUM VOLTAGE MONOLITHIC CERAMIC CHIP CAPACITORS (250 to 3.15 KV)

### U2J, 250V, 630V, 1KV, 2KV, 3.15KV

For availability check with your Murata Sales Contact. Part numbers in kits depend on application.

- Murata's original internal electrode structure realizes high flash-over voltage.
- A new monolithic structure for small, surface-mountable devices capable of operating at high voltage levels.
- Sn-plated external electrodes realize good solderability.
- Use the GRM21/31 type with flow or reflow soldering, and other types with reflow soldering only.
- Low-loss and suitable for high frequency circuits
- Working VDC: 250V, 630V, 1kV, 2kV, 3.15kV

### X7R, 250V, 630V

For availability check with your Murata Sales Contact. Part numbers in kits depend on application.

- A new monolithic structure for small, high capacitance capable of operating at high voltage levels.
- Sn-plated external electrodes realizes good solderability.
- Use the GRM18/21/31 types with flow or reflow soldering, and other types with reflow soldering only.
- Working VDC: 250V, 630V

### GR4, X7R, 2KV

For availability check with your Murata Sales Contact. Part numbers in kits depend on application.

- These items are designed specifically for telecommunication devices (IEEE802.3) in Ethernet LAN.
- A new monolithic structure for small, high capacitance components capable of operating at high voltage levels.
- Sn-plated external electrodes realizes good solderability.
- Only for reflow soldering
- The low-profile type (thickness: 1.5mm max.) is available. Fit for use on thinner type equipment.
- Working Voltage: 2000V

## RADIAL LEADED MEDIUM VOLTAGE DISC CAPACITORS (500 to 6.3 KV)

### DES, DEA, DEB, DEH and DEC Series

For availability check with your Murata Sales Contact. Part numbers in kits depend on application.

- Operating temperature range is guaranteed up to 125 degree C.
- Coated with flame-retardant epoxy resin (equivalent to UL94V-0 standard).
- Taping available for automatic insertion.
- Available product for RoHS Restriction (EU Directive 2002/95/EC).
- Working Voltages: DES series: 500 & 1KVDC; DEA, DEB, and DEH series: 1KV, 2KV, 3.15KV; DEC Series: 6.3 KVDC

## CERAMIC CHIP SAFETY CAPACITORS (250 VAC)

### GD Series SMD

For availability check with your Murata Sales Contact. Part numbers in kits depend on application.

- A new monolithic structure for small, high capacitance capable of operating at high voltage levels.
- The type GD can be used as a Y3-class capacitor.
- Available for equipment based on IEC/EN60950 and UL1950.
- +125 degree C guaranteed
- Only for reflow soldering
- The low-profile type (thickness: 1.5mm max.) is available. Fit for use on thinner type equipment.
- Working Voltage: 250 VAC

### GF Series SMD

For availability check with your Murata Sales Contact. Part numbers in kits depend on application.

- A new monolithic structure for small, high capacitance capable of operating at high voltage levels.
- The type GF can be used as a Y2-class capacitor.
- Available for equipment based on IEC/EN60950 and UL1950. The GA352/355 types are available for equipment based on IEC/EN60065, UL1492, and UL6500.
- +125 degree C guaranteed
- Only for reflow soldering
- The low-profile type (thickness: 1.5mm max.) is available. Fit for use on thinner type equipment.
- Working Voltage: 250 VAC

## RADIAL LEADED DISC SAFETY CAPACITORS (250 VAC)

### KX Series Leaded Safety Kit

For availability check with your Murata Sales Contact. Part numbers in kits depend on application.

- Operating temperature range guaranteed up to 125 degrees (UL: 85 deg.)
- Dielectric strength: AC4000V
- Class X1/Y1 capacitors which are recognized by UL/CSA/BSI/SEMKO/SEV/VDE/FIMKO/NEMKO/DEMKO/IMQ.
- Possible to use with a component in appliance requiring reinforced insulation and double insulation based on UL1492, IEC60065 and IEC60950.
- Coated with flame-retardant epoxy resin (conforming to UL94V-0 standard).
- Cost-saving automatic insertion available.
- Available product for RoHS Restriction (EU Directive 2002/95/EC)
- Working Voltage: 250 VAC

### KY Series Leaded Safety Kit

For availability check with your Murata Sales Contact. Part numbers in kits depend on application.

- Operating temperature range guaranteed up to 125 degrees (UL: 85 deg.)
- Dielectric strength: AC2000V (In case of lead spacing F=5mm), AC2600V (In case of lead spacing F=7.5mm)
- Class X1/Y2 capacitors which are recognized by UL/CSA/BSI/SEMKO/SEV/VDE/FIMKO/NEMKO/DEMKO/NSW.
- Coated with flame-retardant epoxy resin (conforming to UL94V-0 standard).
- Cost-saving automatic insertion available.
- Available product for RoHS Restriction (EU Directive 2002/95/EC)
- Working Voltage: 250 VAC

## MICROWAVE COAXIAL CONNECTORS

- The Microwave Switch Connectors provide an easy and reliable test point allowing for handsfree operation when verifying the designs functionality or when doing circuit modification.
- Popular applications include cell phones, GPS, WiMax, UWB, Bluetooth, Zigbee and WLAN products.
- Small size: SWF - 2.5 x 2.4 x 1.4mm (L x W x H)  
SWD - 3.0 x 3.0 x 1.75mm (L x W x H)
- Wide Operating Frequency Ranges - DC to 6GHz
- Low insertion loss - 0.1dB from DC to 3GHz and 0.2 max from 3 to 6GHz
- High engagement count: SWF - 100 cycles  
SWD - 500 cycles
- Reflow compatible with today's automated production processes
- RoHS compliant

### SWF SERIES KIT M1KMM8130-SWF01

| No. | Description                      | Murata Global P/N     | Qty. |
|-----|----------------------------------|-----------------------|------|
| 1   | Board Mounted Switch Connectors  | MM8130-2600B          | 25   |
| 2   | Manual Test Probe                | MXHS83QE3000          | 1    |
| 3   | Evaluation Board with Receptacle | MM8130-2600B with PCB | 1    |
| 4   | Instructional Guide              | n/a                   | 1    |

### SWD SERIES KIT M1KMM8430-SWD01

| No. | Description                      | Murata Global P/N     | Qty. |
|-----|----------------------------------|-----------------------|------|
| 1   | Board Mounted Switch Connectors  | MM8430-2610B          | 25   |
| 2   | Manual Test Probe                | MXHS83QE3000          | 1    |
| 3   | Evaluation Board with Receptacle | MM8430-2610B with PCB | 1    |
| 4   | Instructional Guide              | n/a                   | 1    |

- The HSC series of Ultra Small Cable Connectors allows design engineers an easy method of interconnecting two points for microwave signals.
- Typical applications include cellular phones, WLAN products, wireless modules, notebook computers and measuring equipment
- Small size - 2.0 x 2.0 x 0.6mm (L x W x H)
- Maximum mating height - 1.2mm
- High durability for engagements: 30 cycles
- Wide selection of cable options available
- RoHS compliant

### HSC SERIES KIT M1KMM4829-HSC01

| No. | Description                      | Murata Global P/N     | Qty. |
|-----|----------------------------------|-----------------------|------|
| 1   | Board Mounted Receptacle         | MM4829-2702B          | 25   |
| 2   | MW Coaxial Cable - 100mm         | MXHP32HP1000          | 3    |
| 3   | MW Coaxial Cable - 200mm         | MXHP32XX2000          | 3    |
| 4   | MW Coaxial Cable - 300mm         | MXHP32HP3000          | 3    |
| 5   | Engage/Disengage Tool            | M19100                | 1    |
| 6   | Evaluation Board with Receptacle | MM4829-2702B with PCB | 1    |
| 7   | Instructional Guide              | n/a                   | 1    |

### SURFACE MOUNT EMI FILTERS

#### EKEMBL03D

■ CHIP FERRITE BEADS  
01005 / 0201 SIZE

| No. | Part Number   | Qty. |
|-----|---------------|------|
| 1   | BLM02AG100SN1 | 10   |
| 2   | BLM02AG700SN1 | 10   |
| 3   | BLM02AG121SN1 | 10   |
| 4   | BLM03AG100SN1 | 10   |
| 5   | BLM03AG700SN1 | 10   |
| 6   | BLM03AG800SN1 | 10   |
| 7   | BLM03AG121SN1 | 10   |
| 8   | BLM03AG241SN1 | 10   |
| 9   | BLM03AG601SN1 | 10   |
| 10  | BLM03AG102SN1 | 10   |
| 11  | BLM03BB100SN1 | 10   |
| 12  | BLM03BB220SN1 | 10   |
| 13  | BLM03BB470SN1 | 10   |
| 14  | BLM03BB750SN1 | 10   |
| 15  | BLM03BB121SN1 | 10   |
| 16  | BLM03BD750SN1 | 10   |
| 17  | BLM03BD121SN1 | 10   |
| 18  | BLM03BD241SN1 | 10   |
| 19  | BLM03BD471SN1 | 10   |
| 20  | BLM03BD601SN1 | 10   |
| 21  | BLM03PG220SN1 | 10   |
| 22  | BLM03PG330SN1 | 10   |

#### EKEMBL15K

■ CHIP FERRITE BEADS  
0402 SIZE

| No. | Part Number   | Qty. |
|-----|---------------|------|
| 1   | BLM15AG100SN1 | 10   |
| 2   | BLM15AG700SN1 | 10   |
| 3   | BLM15AG121SN1 | 10   |
| 4   | BLM15AG221SN1 | 10   |
| 5   | BLM15AG601SN1 | 10   |
| 6   | BLM15AG102SN1 | 10   |
| 7   | BLM15AX100SN1 | 10   |
| 8   | BLM15AX700SN1 | 10   |
| 9   | BLM15AX121SN1 | 10   |
| 10  | BLM15AX221SN1 | 10   |
| 11  | BLM15AX601SN1 | 10   |
| 12  | BLM15AX102SN1 | 10   |
| 13  | BLM15BA050SN1 | 10   |
| 14  | BLM15BA100SN1 | 10   |
| 15  | BLM15BA220SN1 | 10   |
| 16  | BLM15BA330SN1 | 10   |
| 17  | BLM15BA470SN1 | 10   |
| 18  | BLM15BA750SN1 | 10   |
| 19  | BLM15BB050SN1 | 10   |
| 20  | BLM15BB100SN1 | 10   |
| 21  | BLM15BB220SN1 | 10   |
| 22  | BLM15BB470SN1 | 10   |
| 23  | BLM15BB750SN1 | 10   |
| 24  | BLM15BD121SN1 | 10   |
| 25  | BLM15BD221SN1 | 10   |
| 26  | BLM15BD750SN1 | 10   |
| 27  | BLM15BD121SN1 | 10   |
| 28  | BLM15BD221SN1 | 10   |
| 29  | BLM15BD471SN1 | 10   |
| 30  | BLM15BD601SN1 | 10   |
| 31  | BLM15BD102SN1 | 10   |
| 32  | BLM15BD182SN1 | 10   |
| 33  | BLM15HD601SN1 | 10   |
| 34  | BLM15HD102SN1 | 10   |
| 35  | BLM15HD182SN1 | 10   |
| 36  | BLM15HG601SN1 | 10   |
| 37  | BLM15HG102SN1 | 10   |
| 38  | BLM15HB121SN1 | 10   |
| 39  | BLM15HB221SN1 | 10   |
| 40  | BLM15EG121SN1 | 10   |
| 41  | BLM15EG221SN1 | 10   |
| 42  | BLM15GG221SN1 | 10   |
| 43  | BLM15GG471SN1 | 10   |
| 44  | BLM15GA750SN1 | 10   |
| 45  | BLM15PG100SN1 | 10   |
| 46  | BLM15PD300SN1 | 10   |
| 47  | BLM15PD600SN1 | 10   |
| 48  | BLM15PD800SN1 | 10   |
| 49  | BLM15PD121SN1 | 10   |

#### EKEMBL18G

■ CHIP FERRITE BEADS  
0603 SIZE

| No. | Part Number   | Qty. |
|-----|---------------|------|
| 1   | BLM18AG121SN1 | 10   |
| 2   | BLM18AG151SN1 | 10   |
| 3   | BLM18AG221SN1 | 10   |
| 4   | BLM18AG331SN1 | 10   |
| 5   | BLM18AG471SN1 | 10   |
| 6   | BLM18AG601SN1 | 10   |
| 7   | BLM18AG102SN1 | 10   |
| 8   | BLM18BA050SN1 | 10   |
| 9   | BLM18BA100SN1 | 10   |
| 10  | BLM18BA470SN1 | 10   |
| 11  | BLM18BA750SN1 | 10   |
| 12  | BLM18BA121SN1 | 10   |
| 13  | BLM18BB050SN1 | 10   |
| 14  | BLM18BB100SN1 | 10   |
| 15  | BLM18BB220SN1 | 10   |
| 16  | BLM18BB470SN1 | 10   |
| 17  | BLM18BB600SN1 | 10   |
| 18  | BLM18BB750SN1 | 10   |
| 19  | BLM18BB121SN1 | 10   |
| 20  | BLM18BB151SN1 | 10   |
| 21  | BLM18BB221SN1 | 10   |
| 22  | BLM18BB331SN1 | 10   |
| 23  | BLM18BB471SN1 | 10   |
| 24  | BLM18BD470SN1 | 10   |
| 25  | BLM18BD121SN1 | 10   |
| 26  | BLM18BD151SN1 | 10   |
| 27  | BLM18BD221SN1 | 10   |
| 28  | BLM18BD331SN1 | 10   |
| 29  | BLM18BD421SN1 | 10   |
| 30  | BLM18BD471SN1 | 10   |
| 31  | BLM18BD601SN1 | 10   |
| 32  | BLM18BD102SN1 | 10   |
| 33  | BLM18BD152SN1 | 10   |
| 34  | BLM18BD182SN1 | 10   |
| 35  | BLM18BD222SN1 | 10   |
| 36  | BLM18BD252SN1 | 10   |
| 37  | BLM18PG300SN1 | 10   |
| 38  | BLM18PG330SN1 | 10   |
| 39  | BLM18PG600SN1 | 10   |
| 40  | BLM18PG121SN1 | 10   |
| 41  | BLM18PG181SN1 | 10   |
| 42  | BLM18PG221SN1 | 10   |
| 43  | BLM18PG331SN1 | 10   |
| 44  | BLM18PG471SN1 | 10   |
| 45  | BLM18KG260TN1 | 10   |
| 46  | BLM18KG700TN1 | 10   |
| 47  | BLM18KG121TN1 | 10   |
| 48  | BLM18KG221SN1 | 10   |
| 49  | BLM18KG331SN1 | 10   |
| 50  | BLM18KG471SN1 | 10   |
| 51  | BLM18KG601SN1 | 10   |
| 52  | BLM18SG260TN1 | 10   |
| 53  | BLM18SG700TN1 | 10   |
| 54  | BLM18SG121TN1 | 10   |
| 55  | BLM18SG221TN1 | 10   |
| 56  | BLM18SG331TN1 | 10   |
| 57  | BLM18RK121SN1 | 10   |
| 58  | BLM18RK471SN1 | 10   |
| 59  | BLM18RK601SN1 | 10   |
| 60  | BLM18RK102SN1 | 10   |

## SURFACE MOUNT EMI FILTERS

### EKEMBL8GA

■ CHIP FERRITE BEADS 0603  
FOR HIGH FREQUENCY TYPE

| No. | Part Number   | Qty. |
|-----|---------------|------|
| 1   | BLM18HG471SN1 | 10   |
| 2   | BLM18HG601SN1 | 10   |
| 3   | BLM18HG102SN1 | 10   |
| 4   | BLM18HB121SN1 | 10   |
| 5   | BLM18HB221SN1 | 10   |
| 6   | BLM18HB331SN1 | 10   |
| 7   | BLM18HD471SN1 | 10   |
| 8   | BLM18HD601SN1 | 10   |
| 9   | BLM18HD102SN1 | 10   |
| 10  | BLM18HE601SN1 | 10   |
| 11  | BLM18HE102SN1 | 10   |
| 12  | BLM18HE152SN1 | 10   |
| 13  | BLM18HK331SN1 | 10   |
| 14  | BLM18HK471SN1 | 10   |
| 15  | BLM18HK601SN1 | 10   |
| 16  | BLM18HK102SN1 | 10   |
| 17  | BLM18EG101TN1 | 10   |
| 18  | BLM18EG121SN1 | 10   |
| 19  | BLM18EG221TN1 | 10   |
| 20  | BLM18EG221SN1 | 10   |
| 21  | BLM18EG331TN1 | 10   |
| 22  | BLM18EG391TN1 | 10   |
| 23  | BLM18EG471SN1 | 10   |
| 24  | BLM18EG601SN1 | 10   |
| 25  | BLM18GG471SN1 | 10   |

### EKEMBL21D

■ CHIP FERRITE BEADS 0805, 1206, 1806  
FOR LARGE CURRENT P TYPE

| No. | Part Number   | Qty. |
|-----|---------------|------|
| 1   | BLM21AG121SN1 | 10   |
| 2   | BLM21AG151SN1 | 10   |
| 3   | BLM21AG221SN1 | 10   |
| 4   | BLM21AG331SN1 | 10   |
| 5   | BLM21AG471SN1 | 10   |
| 6   | BLM21AG601SN1 | 10   |
| 7   | BLM21AG102SN1 | 10   |
| 8   | BLM21BB050SN1 | 10   |
| 9   | BLM21BB600SN1 | 10   |
| 10  | BLM21BB750SN1 | 10   |
| 11  | BLM21BB121SN1 | 10   |
| 12  | BLM21BB221SN1 | 10   |
| 13  | BLM21BB331SN1 | 10   |
| 14  | BLM21BB471SN1 | 10   |
| 15  | BLM21BD121SN1 | 10   |
| 16  | BLM21BD221SN1 | 10   |
| 17  | BLM21BD421SN1 | 10   |
| 18  | BLM21BD471SN1 | 10   |
| 19  | BLM21BD601SN1 | 10   |
| 20  | BLM21BD102SN1 | 10   |
| 21  | BLM21BD152SN1 | 10   |
| 22  | BLM21BD182SN1 | 10   |
| 23  | BLM21BD222SN1 | 10   |
| 24  | BLM21BD222TN1 | 10   |
| 25  | BLM21BD272SN1 | 10   |
| 26  | BLM21PG220SN1 | 10   |
| 27  | BLM21PG300SN1 | 10   |
| 28  | BLM21PG600SN1 | 10   |
| 29  | BLM21PG221SN1 | 10   |
| 30  | BLM21PG331SN1 | 10   |
| 31  | BLM31PG330SN1 | 10   |
| 32  | BLM31PG500SN1 | 10   |
| 33  | BLM31PG121SN1 | 10   |
| 34  | BLM31PG391SN1 | 10   |
| 35  | BLM31PG601SN1 | 10   |
| 36  | BLM41PG600SN1 | 10   |
| 37  | BLM41PG750SN1 | 10   |
| 38  | BLM41PG181SN1 | 10   |
| 39  | BLM41PG471SN1 | 10   |
| 40  | BLM41PG102SN1 | 10   |

### EKEMNFMCB

■ CHIP EMIFIL® 0603, 0805 CAPACITOR  
TYPE FOR SIGNAL LINES

| No. | Part Number    | Qty. |
|-----|----------------|------|
| 1   | NFM18CC220U1C3 | 10   |
| 2   | NFM18CC470U1C3 | 10   |
| 3   | NFM18CC101R1C3 | 10   |
| 4   | NFM18CC221R1C3 | 10   |
| 5   | NFM18CC471R1C3 | 10   |
| 6   | NFM18CC102R1C3 | 10   |
| 7   | NFM18CC222R1C3 | 10   |
| 8   | NFM18CC223R1C3 | 10   |
| 9   | NFM21CC220U1H3 | 10   |
| 10  | NFM21CC470U1H3 | 10   |
| 11  | NFM21CC101U1H3 | 10   |
| 12  | NFM21CC221R1H3 | 10   |
| 13  | NFM21CC471R1H3 | 10   |
| 14  | NFM21CC102R1H3 | 10   |
| 15  | NFM21CC222R1H3 | 10   |
| 16  | NFM21CC223R1H3 | 10   |

### EKEMFA31D

■ CHIP EMIFIL® 1206 CAPACITOR ARRAY  
TYPE, RC COMBINED ARRAY TYPE

| No. | Part Number    | Qty. |
|-----|----------------|------|
| 1   | NFA31CC220S1E4 | 10   |
| 2   | NFA31CC470S1E4 | 10   |
| 3   | NFA31CC101S1E4 | 10   |
| 4   | NFA31CC221S1E4 | 10   |
| 5   | NFA31CC471R1E4 | 10   |
| 6   | NFA31CC102R1E4 | 10   |
| 7   | NFA31CC222R1E4 | 10   |
| 8   | NFA31CC223R1C4 | 10   |
| 9   | NFA31GD1006R84 | 10   |
| 10  | NFA31GD1004704 | 10   |
| 11  | NFA31GD1001014 | 10   |
| 12  | NFA31GD4706R84 | 10   |
| 13  | NFA31GD4703304 | 10   |
| 14  | NFA31GD4704704 | 10   |
| 15  | NFA31GD4701014 | 10   |
| 16  | NFA31GD1016R84 | 10   |
| 17  | NFA31GD1014704 | 10   |
| 18  | NFA31GD1011014 | 10   |

### SURFACE MOUNT EMI FILTERS

#### EKEMFL18E

■ CHIP EMIFIL® 0603, 0805, 1206  
LC COMBINED TYPE

| No. | Part Number    | Qty. |
|-----|----------------|------|
| 1   | NFL18ST207X1C3 | 10   |
| 2   | NFL18ST307X1C3 | 10   |
| 3   | NFL18ST507X1C3 | 10   |
| 4   | NFL18SP157X1A3 | 10   |
| 5   | NFL18SP207X1A3 | 10   |
| 6   | NFL18SP307X1A3 | 10   |
| 7   | NFL18SP507X1A3 | 10   |
| 8   | NFL21SP106X1C3 | 10   |
| 9   | NFL21SP206X1C7 | 10   |
| 10  | NFL21SP506X1C3 | 10   |
| 11  | NFL21SP706X1C3 | 10   |
| 12  | NFL21SP107X1C3 | 10   |
| 13  | NFL21SP157X1C3 | 10   |
| 14  | NFL21SP207X1C3 | 10   |
| 15  | NFL21SP307X1C3 | 10   |
| 16  | NFL21SP407X1C3 | 10   |
| 17  | NFL21SP507X1C3 | 10   |
| 18  | NFW31SP106X1E4 | 10   |
| 19  | NFW31SP206X1E4 | 10   |
| 20  | NFW31SP506X1E4 | 10   |
| 21  | NFW31SP107X1E4 | 10   |
| 22  | NFW31SP157X1E4 | 10   |
| 23  | NFW31SP207X1E4 | 10   |
| 24  | NFW31SP307X1E4 | 10   |
| 25  | NFW31SP407X1E4 | 10   |
| 26  | NFW31SP507X1E4 | 10   |

#### EKEMFA20F

■ CHIP EMIFIL® 0603, 0805 LC COMBINED  
ARRAY TYPE

| No. | Part Number     | Qty. |
|-----|-----------------|------|
| 1   | NFA18SL506K1A45 | 10   |
| 2   | NFA18SL137V1A45 | 10   |
| 3   | NFA18SL187V1A45 | 10   |
| 4   | NFA18SL207V1A45 | 10   |
| 5   | NFA18SL307V1A45 | 10   |
| 6   | NFA18SL407V1A45 | 10   |
| 7   | NFA18SL487V1A45 | 10   |
| 8   | NFA21SL506X1A48 | 10   |
| 9   | NFA18SD187X1A45 | 10   |
| 10  | NFA18SD207X1A45 | 10   |
| 11  | NFA21SL806X1A48 | 10   |
| 12  | NFA21SL207X1A45 | 10   |
| 13  | NFA21SL207X1A48 | 10   |
| 14  | NFA21SL307X1A45 | 10   |
| 15  | NFA21SL307X1A48 | 10   |
| 16  | NFA21SL287V1A45 | 10   |
| 17  | NFA21SL287V1A48 | 10   |
| 18  | NFA21SL317V1A45 | 10   |
| 19  | NFA21SL317V1A48 | 10   |
| 20  | NFA21SL337V1A45 | 10   |
| 21  | NFA21SL337V1A48 | 10   |

#### EKEMNFMPPH

■ CHIP EMIFIL® 0603, 0805, 1206, 1806,  
2706 FOR LARGE CURRENT

| No. | Part Number    | Qty. |
|-----|----------------|------|
| 1   | NFM18PC104R1C3 | 10   |
| 2   | NFM18PC224R0J3 | 10   |
| 3   | NFM18PC474R0J3 | 10   |
| 4   | NFM18PC105R0J3 | 10   |
| 5   | NFM18PC225B0J3 | 10   |
| 6   | NFM18PC225B1A3 | 10   |
| 7   | NFM18PS474R0J3 | 10   |
| 8   | NFM18PS105R0J3 | 10   |
| 9   | NFM21PC104R1E3 | 10   |
| 10  | NFM21PC224R1C3 | 10   |
| 11  | NFM21PC474R1C3 | 10   |
| 12  | NFM21PC105B1A3 | 10   |
| 13  | NFM21PC105B1C3 | 10   |
| 14  | NFM21PC225B0J3 | 10   |
| 15  | NFM21PC475B1A3 | 10   |
| 16  | NFE31PC276B0J3 | 10   |
| 17  | NFE31PT152Z1E9 | 10   |
| 18  | NFE31PT222Z1E9 | 10   |
| 19  | NFE61PT102E1H9 | 10   |
| 20  | NFE61PT472C1H9 | 10   |
| 21  | NFM41PC204F1H3 | 10   |
| 22  | NFM41PC155B1E3 | 10   |

#### EKEPBNX0A

■ BLOCK TYPE EMIFIL®

| No. | Part Number | Qty. |
|-----|-------------|------|
| 1   | BNX002-01   | 1    |
| 2   | BNX012-01   | 1    |
| 3   | BNX016-01   | 1    |
| 4   | BNX012H01   | 1    |
| 5   | BNX022-01   | 3    |
| 6   | BNX023-01   | 3    |
| 7   | BNX024H01   | 3    |
| 8   | BNX025H01   | 3    |

#### EKEPBLCKA

■ BLOCK TYPE EMIFIL®

| No. | Part Number | Qty. |
|-----|-------------|------|
| 1   | BNX002-01   | 1    |
| 2   | BNX003-01   | 1    |
| 3   | BNX005-01   | 1    |
| 4   | BNX012-01   | 1    |
| 5   | BNX016-01   | 1    |
| 6   | BNX012H01   | 1    |
| 7   | BNP002-02   | 1    |
| 8   | BNX022-01   | 3    |
| 9   | BNX023-01   | 3    |
| 10  | BNX024H01   | 3    |
| 11  | BNX025H01   | 3    |

#### EKEMDL21J

■ CHIP COMMON MODE  
CHOKE COILS

| No. | Part Number   | Qty. |
|-----|---------------|------|
| 1   | DLW21HN670SQ2 | 10   |
| 2   | DLW21HN900SQ2 | 10   |
| 3   | DLW21HN121SQ2 | 10   |
| 4   | DLW21HN181SQ2 | 10   |
| 5   | DLW21SN670SQ2 | 10   |
| 6   | DLW21SN900SQ2 | 10   |
| 7   | DLW21SN121SQ2 | 10   |
| 8   | DLW21SN181SQ2 | 10   |
| 9   | DLW21SN261SQ2 | 10   |
| 10  | DLW21SN371SQ2 | 10   |
| 11  | DLW21SN670HQ2 | 10   |
| 12  | DLW21SN900HQ2 | 10   |
| 13  | DLW21SN121HQ2 | 10   |
| 14  | DLW21SR670HQ2 | 10   |
| 15  | DLP0NSN670HL2 | 10   |
| 16  | DLP0NSN900HL2 | 10   |
| 17  | DLP0NSN121HL2 | 10   |
| 18  | DLP11SN670SL2 | 10   |
| 19  | DLP11SN121SL2 | 10   |
| 20  | DLP11SN161SL2 | 10   |
| 21  | DLP11SN900HL2 | 10   |
| 22  | DLP11SN201HL2 | 10   |
| 23  | DLP11SN241HL2 | 10   |
| 24  | DLP11SN281HL2 | 10   |
| 25  | DLP11SN331HL2 | 10   |
| 26  | DLP11SA350HL2 | 10   |
| 27  | DLP11SA670HL2 | 10   |
| 28  | DLP11SA900HL2 | 10   |
| 29  | DLP2ADN670HL4 | 10   |
| 30  | DLP2ADN900HL4 | 10   |
| 31  | DLP2ADN121HL4 | 10   |
| 32  | DLP2ADN161HL4 | 10   |
| 33  | DLP2ADN201HL4 | 10   |
| 34  | DLP2ADN241HL4 | 10   |
| 35  | DLP2ADN281HL4 | 10   |

#### EKEMDCC5B

■ CHIP COMMON MODE CHOKE COILS  
5.0 x 5.0mm, 5.0 x 3.6mm FOR  
DC POWER LINE / SMD BLOCK TYPE  
EMIFIL® FOR POWER LINE

| No. | Part Number   | Qty. |
|-----|---------------|------|
| 1   | DLW5AHN402SQ2 | 5    |
| 2   | DLW5BSN191SQ2 | 5    |
| 3   | DLW5BSN351SQ2 | 5    |
| 4   | DLW5BSN102SQ2 | 5    |
| 5   | DLW5BSN152SQ2 | 5    |
| 6   | DLW5BSN302SQ2 | 5    |
| 7   | DLW5BTN101SQ2 | 5    |
| 8   | DLW5BTN251SQ2 | 5    |
| 9   | DLW5BTN501SQ2 | 5    |
| 10  | DLW5BTN102SQ2 | 5    |
| 11  | DLW5BTN142SQ2 | 5    |
| 12  | BNX022-01     | 5    |
| 13  | BNX023-01     | 5    |

## SURFACE MOUNT INDUCTORS

### **EKLMQ15SC**

■ SURFACE MOUNT 0402  
HIGH FREQUENCY MONOLITHIC TYPE

| No. | Part Number   | Qty. |
|-----|---------------|------|
| 1   | LQG15HS1N0S02 | 10   |
| 2   | LQG15HS1N1S02 | 10   |
| 3   | LQG15HS1N2S02 | 10   |
| 4   | LQG15HS1N3S02 | 10   |
| 5   | LQG15HS1N5S02 | 10   |
| 6   | LQG15HS1N6S02 | 10   |
| 7   | LQG15HS1N8S02 | 10   |
| 8   | LQG15HS2N0S02 | 10   |
| 9   | LQG15HS2N2S02 | 10   |
| 10  | LQG15HS2N4S02 | 10   |
| 11  | LQG15HS2N7S02 | 10   |
| 12  | LQG15HS3N0S02 | 10   |
| 13  | LQG15HS3N3S02 | 10   |
| 14  | LQG15HS3N6S02 | 10   |
| 15  | LQG15HS3N9S02 | 10   |
| 16  | LQG15HS4N3S02 | 10   |
| 17  | LQG15HS4N7S02 | 10   |
| 18  | LQG15HS5N1S02 | 10   |
| 19  | LQG15HS5N6S02 | 10   |
| 20  | LQG15HS6N2S02 | 10   |
| 21  | LQG15HS6N8J02 | 10   |
| 22  | LQG15HS7N5J02 | 10   |
| 23  | LQG15HS8N2J02 | 10   |
| 24  | LQG15HS9N1J02 | 10   |
| 25  | LQG15HS10NJ02 | 10   |
| 26  | LQG15HS12NJ02 | 10   |
| 27  | LQG15HS15NJ02 | 10   |
| 28  | LQG15HS18NJ02 | 10   |
| 29  | LQG15HS22NJ02 | 10   |
| 30  | LQG15HS27NJ02 | 10   |
| 31  | LQG15HS33NJ02 | 10   |
| 32  | LQG15HS39NJ02 | 10   |
| 33  | LQG15HS47NJ02 | 10   |
| 34  | LQG15HS56NJ02 | 10   |
| 35  | LQG15HS68NJ02 | 10   |
| 36  | LQG15HS82NJ02 | 10   |
| 37  | LQG15HSR10J02 | 10   |
| 38  | LQG15HSR12J02 | 10   |
| 39  | LQG15HSR15J02 | 10   |
| 40  | LQG15HSR18J02 | 10   |
| 41  | LQG15HSR22J02 | 10   |
| 42  | LQG15HSR27J02 | 10   |

### **EKLMQG18B**

■ SURFACE MOUNT 0603  
HIGH FREQUENCY MONOLITHIC TYPE

| No. | Part Number   | Qty. |
|-----|---------------|------|
| 1   | LQG18HN1N2S00 | 10   |
| 2   | LQG18HN1N5S00 | 10   |
| 3   | LQG18HN1N8S00 | 10   |
| 4   | LQG18HN2N2S00 | 10   |
| 5   | LQG18HN2N7S00 | 10   |
| 6   | LQG18HN3N3S00 | 10   |
| 7   | LQG18HN3N9S00 | 10   |
| 8   | LQG18HN4N7S00 | 10   |
| 9   | LQG18HN5N6S00 | 10   |
| 10  | LQG18HN6N8J00 | 10   |
| 11  | LQG18HN8N2J00 | 10   |
| 12  | LQG18HN10NJ00 | 10   |
| 13  | LQG18HN12NJ00 | 10   |
| 14  | LQG18HN15NJ00 | 10   |
| 15  | LQG18HN18NJ00 | 10   |
| 16  | LQG18HN22NJ00 | 10   |
| 17  | LQG18HN27NJ00 | 10   |
| 18  | LQG18HN33NJ00 | 10   |
| 19  | LQG18HN39NJ00 | 10   |
| 20  | LQG18HN47NJ00 | 10   |
| 21  | LQG18HN56NJ00 | 10   |
| 22  | LQG18HN68NJ00 | 10   |
| 23  | LQG18HN82NJ00 | 10   |
| 24  | LQG18HNR10J00 | 10   |

### **EKLMQP02C**

■ SURFACE MOUNT 01005  
HIGH FREQUENCY FILM TYPE

| No. | Part Number   | Qty. |
|-----|---------------|------|
| 1   | LQP02TN0N4S02 | 10   |
| 2   | LQP02TN0N5S02 | 10   |
| 3   | LQP02TN0N6S02 | 10   |
| 4   | LQP02TN0N7S02 | 10   |
| 5   | LQP02TN0N8S02 | 10   |
| 6   | LQP02TN0N9S02 | 10   |
| 7   | LQP02TN1N0S02 | 10   |
| 8   | LQP02TN1N1S02 | 10   |
| 9   | LQP02TN1N2S02 | 10   |
| 10  | LQP02TN1N3S02 | 10   |
| 11  | LQP02TN1N5S02 | 10   |
| 12  | LQP02TN1N6S02 | 10   |
| 13  | LQP02TN1N8S02 | 10   |
| 14  | LQP02TN2N0S02 | 10   |
| 15  | LQP02TN2N2S02 | 10   |
| 16  | LQP02TN2N4S02 | 10   |
| 17  | LQP02TN2N7S02 | 10   |
| 18  | LQP02TN3N0S02 | 10   |
| 19  | LQP02TN3N3S02 | 10   |
| 20  | LQP02TN3N6S02 | 10   |
| 21  | LQP02TN3N9S02 | 10   |
| 22  | LQP02TN4N3S02 | 10   |
| 23  | LQP02TN4N7S02 | 10   |
| 24  | LQP02TN5N1S02 | 10   |
| 25  | LQP02TN5N6S02 | 10   |
| 26  | LQP02TN6N2J02 | 10   |
| 27  | LQP02TN6N8J02 | 10   |
| 28  | LQP02TN7N5J02 | 10   |
| 29  | LQP02TN8N2J02 | 10   |
| 30  | LQP02TN9N1J02 | 10   |
| 31  | LQP02TN10NJ02 | 10   |
| 32  | LQP02TN12NJ02 | 10   |
| 33  | LQP02TN15NJ02 | 10   |
| 34  | LQP02TN18NJ02 | 10   |

## SURFACE MOUNT INDUCTORS

### EKLMQP03K

■ SURFACE MOUNT 0201  
HIGH FREQUENCY FILM TYPE

| No. | Part Number   | Qty. |
|-----|---------------|------|
| 1   | LQP03TN0N6B00 | 10   |
| 2   | LQP03TN1N0B00 | 10   |
| 3   | LQP03TN1N1B00 | 10   |
| 4   | LQP03TN1N2B00 | 10   |
| 5   | LQP03TN1N3B00 | 10   |
| 6   | LQP03TN1N4B00 | 10   |
| 7   | LQP03TN1N5B00 | 10   |
| 8   | LQP03TN1N6B00 | 10   |
| 9   | LQP03TN1N7B00 | 10   |
| 10  | LQP03TN1N8B00 | 10   |
| 11  | LQP03TN1N9B00 | 10   |
| 12  | LQP03TN2N0B00 | 10   |
| 13  | LQP03TN2N1B00 | 10   |
| 14  | LQP03TN2N2B00 | 10   |
| 15  | LQP03TN2N3B00 | 10   |
| 16  | LQP03TN2N4B00 | 10   |
| 17  | LQP03TN2N5B00 | 10   |
| 18  | LQP03TN2N6B00 | 10   |
| 19  | LQP03TN2N7B00 | 10   |
| 20  | LQP03TN2N8B00 | 10   |
| 21  | LQP03TN2N9B00 | 10   |
| 22  | LQP03TN3N0B00 | 10   |
| 23  | LQP03TN3N1B00 | 10   |
| 24  | LQP03TN3N2B00 | 10   |
| 25  | LQP03TN3N3B00 | 10   |
| 26  | LQP03TN3N4B00 | 10   |
| 27  | LQP03TN3N5B00 | 10   |
| 28  | LQP03TN3N6B00 | 10   |
| 29  | LQP03TN3N7B00 | 10   |
| 30  | LQP03TN3N8B00 | 10   |
| 31  | LQP03TN3N9B00 | 10   |
| 32  | LQP03TN4N3H00 | 10   |
| 33  | LQP03TN4N7H00 | 10   |
| 34  | LQP03TN5N1H00 | 10   |
| 35  | LQP03TN5N6H00 | 10   |
| 36  | LQP03TN6N2H00 | 10   |
| 37  | LQP03TN6N8H00 | 10   |
| 38  | LQP03TN7N5H00 | 10   |
| 39  | LQP03TN8N2H00 | 10   |
| 40  | LQP03TN9N1H00 | 10   |
| 41  | LQP03TN10NH00 | 10   |
| 42  | LQP03TN12NH00 | 10   |
| 43  | LQP03TN15NH00 | 10   |
| 44  | LQP03TN18NH00 | 10   |
| 45  | LQP03TN22NH00 | 10   |
| 46  | LQP03TN27NH00 | 10   |
| 47  | LQP03TN33NJ00 | 10   |
| 48  | LQP03TN39NJ00 | 10   |
| 49  | LQP03TN47NJ00 | 10   |

### EKLMQP15B

■ SURFACE MOUNT 0402  
HIGH FREQUENCY FILM TYPE

| No. | Part Number   | Qty. |
|-----|---------------|------|
| 1   | LQP15MN1N0B02 | 10   |
| 2   | LQP15MN1N1B02 | 10   |
| 3   | LQP15MN1N2B02 | 10   |
| 4   | LQP15MN1N3B02 | 10   |
| 5   | LQP15MN1N5B02 | 10   |
| 6   | LQP15MN1N6B02 | 10   |
| 7   | LQP15MN1N8B02 | 10   |
| 8   | LQP15MN2N0B02 | 10   |
| 9   | LQP15MN2N2B02 | 10   |
| 10  | LQP15MN2N4B02 | 10   |
| 11  | LQP15MN2N7B02 | 10   |
| 12  | LQP15MN3N0B02 | 10   |
| 13  | LQP15MN3N3B02 | 10   |
| 14  | LQP15MN3N6B02 | 10   |
| 15  | LQP15MN3N9B02 | 10   |
| 16  | LQP15MN4N3B02 | 10   |
| 17  | LQP15MN4N7B02 | 10   |
| 18  | LQP15MN5N1B02 | 10   |
| 19  | LQP15MN5N6B02 | 10   |
| 20  | LQP15MN6N2B02 | 10   |
| 21  | LQP15MN6N8B02 | 10   |
| 22  | LQP15MN7N5B02 | 10   |
| 23  | LQP15MN8N2B02 | 10   |
| 24  | LQP15MN9N1B02 | 10   |
| 25  | LQP15MN10NG02 | 10   |
| 26  | LQP15MN12NG02 | 10   |
| 27  | LQP15MN15NG02 | 10   |
| 28  | LQP15MN18NG02 | 10   |
| 29  | LQP15MN22NG02 | 10   |
| 30  | LQP15MN27NG02 | 10   |
| 31  | LQP15MN33NG02 | 10   |

### EKLMQW04C

■ SURFACE MOUNT 03015  
HIGH FREQUENCY WIRE WOUND TYPE

| No. | Part Number   | Qty. |
|-----|---------------|------|
| 1   | LQW04AN1N1C00 | 10   |
| 2   | LQW04AN1N8C00 | 10   |
| 3   | LQW04AN2N7C00 | 10   |
| 4   | LQW04AN3N0C00 | 10   |
| 5   | LQW04AN3N6C00 | 10   |
| 6   | LQW04AN3N9C00 | 10   |
| 7   | LQW04AN4N3C00 | 10   |
| 8   | LQW04AN4N7C00 | 10   |
| 9   | LQW04AN5N1C00 | 10   |
| 10  | LQW04AN5N6C00 | 10   |
| 11  | LQW04AN6N2C00 | 10   |
| 12  | LQW04AN6N8C00 | 10   |
| 13  | LQW04AN7N5C00 | 10   |
| 14  | LQW04AN8N2C00 | 10   |
| 15  | LQW04AN9N1C00 | 10   |
| 16  | LQW04AN10NH00 | 10   |
| 17  | LQW04AN11NH00 | 10   |
| 18  | LQW04AN12NH00 | 10   |
| 19  | LQW04AN13NH00 | 10   |
| 20  | LQW04AN15NH00 | 10   |
| 21  | LQW04AN16NH00 | 10   |
| 22  | LQW04AN18NH00 | 10   |
| 23  | LQW04AN19NH00 | 10   |
| 24  | LQW04AN20NH00 | 10   |
| 25  | LQW04AN22NH00 | 10   |
| 26  | LQW04AN23NH00 | 10   |
| 27  | LQW04AN24NH00 | 10   |
| 28  | LQW04AN25NH00 | 10   |
| 29  | LQW04AN27NH00 | 10   |
| 30  | LQW04AN33NH00 | 10   |

## SURFACE MOUNT INDUCTORS

### EKLMQW15H

■ SURFACE MOUNT 0402  
HIGH FREQUENCY WIRE WOUND TYPE

| No. | Part Number   | Qty. |
|-----|---------------|------|
| 1   | LQW15AN1N3C10 | 10   |
| 2   | LQW15AN1N5B00 | 10   |
| 3   | LQW15AN2N2C10 | 10   |
| 4   | LQW15AN2N4B00 | 10   |
| 5   | LQW15AN2N5B00 | 10   |
| 6   | LQW15AN2N7B00 | 10   |
| 7   | LQW15AN2N9B00 | 10   |
| 8   | LQW15AN3N3D10 | 10   |
| 9   | LQW15AN3N4C10 | 10   |
| 10  | LQW15AN3N6C10 | 10   |
| 11  | LQW15AN3N9B00 | 10   |
| 12  | LQW15AN4N1B00 | 10   |
| 13  | LQW15AN4N3B00 | 10   |
| 14  | LQW15AN4N7B00 | 10   |
| 15  | LQW15AN5N1B00 | 10   |
| 16  | LQW15AN5N6C10 | 10   |
| 17  | LQW15AN5N8B00 | 10   |
| 18  | LQW15AN6N2B00 | 10   |
| 19  | LQW15AN6N8G00 | 10   |
| 20  | LQW15AN7N3G00 | 10   |
| 21  | LQW15AN7N5G00 | 10   |
| 22  | LQW15AN8N2G00 | 10   |
| 23  | LQW15AN8N7G00 | 10   |
| 24  | LQW15AN9N1G00 | 10   |
| 25  | LQW15AN9N5G00 | 10   |
| 26  | LQW15AN10NG00 | 10   |
| 27  | LQW15AN11NG00 | 10   |
| 28  | LQW15AN12NG00 | 10   |
| 29  | LQW15AN13NG00 | 10   |
| 30  | LQW15AN15NG00 | 10   |
| 31  | LQW15AN16NG00 | 10   |
| 32  | LQW15AN18NG00 | 10   |
| 33  | LQW15AN19NG00 | 10   |
| 34  | LQW15AN20NG00 | 10   |
| 35  | LQW15AN22NG00 | 10   |
| 36  | LQW15AN23NG00 | 10   |
| 37  | LQW15AN24NG00 | 10   |
| 38  | LQW15AN27NG00 | 10   |
| 39  | LQW15AN30NG00 | 10   |
| 40  | LQW15AN33NG00 | 10   |
| 41  | LQW15AN36NG00 | 10   |
| 42  | LQW15AN39NG00 | 10   |
| 43  | LQW15AN40NG00 | 10   |
| 44  | LQW15AN43NG00 | 10   |
| 45  | LQW15AN47NG00 | 10   |
| 46  | LQW15AN51NG00 | 10   |
| 47  | LQW15AN56NG00 | 10   |
| 48  | LQW15AN62NG00 | 10   |
| 49  | LQW15AN68NG00 | 10   |
| 50  | LQW15AN75NG00 | 10   |
| 51  | LQW15AN82NG00 | 10   |
| 52  | LQW15AN91NG00 | 10   |
| 53  | LQW15ANR10J00 | 10   |
| 54  | LQW15ANR12J00 | 10   |

### EKLMQ18GB

■ SURFACE MOUNT 0603 TIGHT  
TOLERANCE HIGH FREQUENCY WIRE  
WOUND TYPE

| No. | Part Number   | Qty. |
|-----|---------------|------|
| 1   | LQW18AN3N6C00 | 10   |
| 2   | LQW18AN3N9C00 | 10   |
| 3   | LQW18AN4N3C00 | 10   |
| 4   | LQW18AN5N6C00 | 10   |
| 5   | LQW18AN6N2C00 | 10   |
| 6   | LQW18AN6N8C00 | 10   |
| 7   | LQW18AN10NG00 | 10   |
| 8   | LQW18AN11NG00 | 10   |
| 9   | LQW18AN12NG00 | 10   |
| 10  | LQW18AN13NG00 | 10   |
| 11  | LQW18AN15NG00 | 10   |
| 12  | LQW18AN16NG00 | 10   |
| 13  | LQW18AN18NG00 | 10   |
| 14  | LQW18AN20NG00 | 10   |
| 15  | LQW18AN22NG00 | 10   |
| 16  | LQW18AN24NG00 | 10   |
| 17  | LQW18AN27NG00 | 10   |
| 18  | LQW18AN30NG00 | 10   |
| 19  | LQW18AN33NG00 | 10   |
| 20  | LQW18AN36NG00 | 10   |
| 21  | LQW18AN39NG00 | 10   |
| 22  | LQW18AN43NG00 | 10   |
| 23  | LQW18AN47NG00 | 10   |
| 24  | LQW18AN51NG00 | 10   |
| 25  | LQW18AN56NG00 | 10   |
| 26  | LQW18AN62NG00 | 10   |
| 27  | LQW18AN68NG00 | 10   |
| 28  | LQW18AN72NG00 | 10   |
| 29  | LQW18AN75NG00 | 10   |
| 30  | LQW18AN82NG00 | 10   |
| 31  | LQW18AN91NG00 | 10   |
| 32  | LQW18ANR10G00 | 10   |
| 33  | LQW18ANR11G00 | 10   |
| 34  | LQW18ANR12G00 | 10   |
| 35  | LQW18ANR13G00 | 10   |
| 36  | LQW18ANR15G00 | 10   |
| 37  | LQW18ANR16G00 | 10   |
| 38  | LQW18ANR18G00 | 10   |
| 39  | LQW18ANR20G00 | 10   |
| 40  | LQW18ANR22G00 | 10   |
| 41  | LQW18ANR27G00 | 10   |
| 42  | LQW18ANR33G00 | 10   |
| 43  | LQW18ANR39G00 | 10   |
| 44  | LQW18ANR47G00 | 10   |
| 45  | LQW18AN3N9C10 | 10   |
| 46  | LQW18AN6N8C10 | 10   |
| 47  | LQW18AN10NG10 | 10   |
| 48  | LQW18AN12NG10 | 10   |
| 49  | LQW18AN18NG10 | 10   |
| 50  | LQW18AN22NG10 | 10   |
| 51  | LQW18AN27NG10 | 10   |

### EKLMQ18JC

■ SURFACE MOUNT 0603  
HIGH FREQUENCY WIRE WOUND TYPE

| No. | Part Number   | Qty. |
|-----|---------------|------|
| 1   | LQW18AN3N6D00 | 10   |
| 2   | LQW18AN4N3D00 | 10   |
| 3   | LQW18AN4N7D00 | 10   |
| 4   | LQW18AN6N2D00 | 10   |
| 5   | LQW18AN7N5D00 | 10   |
| 6   | LQW18AN8N7D00 | 10   |
| 7   | LQW18AN9N1D00 | 10   |
| 8   | LQW18AN9N5D00 | 10   |
| 9   | LQW18AN11NJ00 | 10   |
| 10  | LQW18AN13NJ00 | 10   |
| 11  | LQW18AN16NJ00 | 10   |
| 12  | LQW18AN20NJ00 | 10   |
| 13  | LQW18AN24NJ00 | 10   |
| 14  | LQW18AN30NJ00 | 10   |
| 15  | LQW18AN36NJ00 | 10   |
| 16  | LQW18AN39NJ00 | 10   |
| 17  | LQW18AN43NJ00 | 10   |
| 18  | LQW18AN47NJ00 | 10   |
| 19  | LQW18AN51NJ00 | 10   |
| 20  | LQW18AN56NJ00 | 10   |
| 21  | LQW18AN62NJ00 | 10   |
| 22  | LQW18AN68NJ00 | 10   |
| 23  | LQW18AN72NJ00 | 10   |
| 24  | LQW18AN75NJ00 | 10   |
| 25  | LQW18AN82NJ00 | 10   |
| 26  | LQW18AN91NJ00 | 10   |
| 27  | LQW18ANR10J00 | 10   |
| 28  | LQW18ANR11J00 | 10   |
| 29  | LQW18ANR12J00 | 10   |
| 30  | LQW18ANR13J00 | 10   |
| 31  | LQW18ANR15J00 | 10   |
| 32  | LQW18ANR16J00 | 10   |
| 33  | LQW18ANR18J00 | 10   |
| 34  | LQW18ANR20J00 | 10   |
| 35  | LQW18ANR22J00 | 10   |
| 36  | LQW18ANR27J00 | 10   |
| 37  | LQW18ANR33J00 | 10   |
| 38  | LQW18ANR39J00 | 10   |
| 39  | LQW18ANR47J00 | 10   |
| 40  | LQW18AN2N2D10 | 10   |
| 41  | LQW18AN3N9D10 | 10   |
| 42  | LQW18AN5N6D10 | 10   |
| 43  | LQW18AN6N8D10 | 10   |
| 44  | LQW18AN8N2D10 | 10   |
| 45  | LQW18AN10NJ10 | 10   |
| 46  | LQW18AN12NJ10 | 10   |
| 47  | LQW18AN15NJ10 | 10   |
| 48  | LQW18AN18NJ10 | 10   |
| 49  | LQW18AN22NJ10 | 10   |
| 50  | LQW18AN27NJ10 | 10   |
| 51  | LQW18AN33NJ10 | 10   |

## SURFACE MOUNT INDUCTORS

### EKLMQW21A

■ SURFACE MOUNT 0805 HIGH FREQUENCY WIRE WOUND FERRITE TYPE

| No. | Part Number   | Qty. |
|-----|---------------|------|
| 1   | LQW21HNR47J00 | 10   |
| 2   | LQW21HNR56J00 | 10   |
| 3   | LQW21HNR68J00 | 10   |
| 4   | LQW21HNR82J00 | 10   |
| 5   | LQW21HN1R0J00 | 10   |
| 6   | LQW21HN1R2J00 | 10   |
| 7   | LQW21HN1R5J00 | 10   |
| 8   | LQW21HN1R8J00 | 10   |
| 9   | LQW21HN2R2J00 | 10   |

### EKLMQW2BB

■ SURFACE MOUNT 0805 HIGH FREQUENCY WIRE WOUND AIR CORE TYPE

| No. | Part Number   | Qty. |
|-----|---------------|------|
| 1   | LQW2BHN2N7D13 | 10   |
| 2   | LQW2BHN3N1D13 | 10   |
| 3   | LQW2BHN3N3D13 | 10   |
| 4   | LQW2BHN5N6D13 | 10   |
| 5   | LQW2BHN6N8D13 | 10   |
| 6   | LQW2BHN8N6D13 | 10   |
| 7   | LQW2BHN10NJ13 | 10   |
| 8   | LQW2BHN12NK13 | 10   |
| 9   | LQW2BHN15NK13 | 10   |
| 10  | LQW2BHN18NK13 | 10   |
| 11  | LQW2BHN21NK13 | 10   |
| 12  | LQW2BHN27NK13 | 10   |
| 13  | LQW2BHN33NJ03 | 10   |
| 14  | LQW2BHN39NJ03 | 10   |
| 15  | LQW2BHN47NJ03 | 10   |
| 16  | LQW2BHN56NJ03 | 10   |
| 17  | LQW2BHN68NJ03 | 10   |
| 18  | LQW2BHN82NJ03 | 10   |
| 19  | LQW2BHN10J03  | 10   |
| 20  | LQW2BHN12J03  | 10   |
| 21  | LQW2BHN15J03  | 10   |
| 22  | LQW2BHN18J03  | 10   |
| 23  | LQW2BHN22J03  | 10   |
| 24  | LQW2BHN27K03  | 10   |
| 25  | LQW2BHN33K03  | 10   |
| 26  | LQW2BHN39K03  | 10   |
| 27  | LQW2BHN47K03  | 10   |

### EKLMQM18B

■ SURFACE MOUNT 0603 GENERAL USE MONOLITHIC TYPE

| No. | Part Number   | Qty. |
|-----|---------------|------|
| 1   | LQM18NN47NM00 | 10   |
| 2   | LQM18NN68NM00 | 10   |
| 3   | LQM18NN82NM00 | 10   |
| 4   | LQM18NNR10K00 | 10   |
| 5   | LQM18NNR12K00 | 10   |
| 6   | LQM18NNR15K00 | 10   |
| 7   | LQM18NNR18K00 | 10   |
| 8   | LQM18NNR22K00 | 10   |
| 9   | LQM18NNR27K00 | 10   |
| 10  | LQM18NNR33K00 | 10   |
| 11  | LQM18NNR39K00 | 10   |
| 12  | LQM18NNR47K00 | 10   |
| 13  | LQM18NNR56K00 | 10   |
| 14  | LQM18NNR68K00 | 10   |
| 15  | LQM18NNR82K00 | 10   |
| 16  | LQM18NN1R0K00 | 10   |
| 17  | LQM18NN1R2K00 | 10   |
| 18  | LQM18NN1R5K00 | 10   |
| 19  | LQM18NN1R8K00 | 10   |
| 20  | LQM18NN2R2K00 | 10   |

### EKLMM21NB

■ SURFACE MOUNT 0805 GENERAL USE MONOLITHIC TYPE

| No. | Part Number   | Qty. |
|-----|---------------|------|
| 1   | LQM21NNR10K10 | 10   |
| 2   | LQM21NNR12K10 | 10   |
| 3   | LQM21NNR15K10 | 10   |
| 4   | LQM21NNR18K10 | 10   |
| 5   | LQM21NNR22K10 | 10   |
| 6   | LQM21NNR27K10 | 10   |
| 7   | LQM21NNR33K10 | 10   |
| 8   | LQM21NNR39K10 | 10   |
| 9   | LQM21NNR47K10 | 10   |
| 10  | LQM21NNR56K10 | 10   |
| 11  | LQM21NNR68K10 | 10   |
| 12  | LQM21NNR82K10 | 10   |
| 13  | LQM21NN1R0K10 | 10   |
| 14  | LQM21NN1R2K10 | 10   |
| 15  | LQM21NN1R5K10 | 10   |
| 16  | LQM21NN1R8K10 | 10   |
| 17  | LQM21NN2R2K10 | 10   |
| 18  | LQM21NN2R7K10 | 10   |
| 19  | LQM21NN3R3K10 | 10   |
| 20  | LQM21NN3R9K10 | 10   |
| 21  | LQM21NN4R7K10 | 10   |

### EKLMMH32MC

■ SURFACE MOUNT 1210 GENERAL USE WIRE WOUND TYPE

| No. | Part Number   | Qty. |
|-----|---------------|------|
| 1   | LQH32MN1R0M23 | 10   |
| 2   | LQH32MN1R2M23 | 10   |
| 3   | LQH32MN1R5K23 | 10   |
| 4   | LQH32MN1R8K23 | 10   |
| 5   | LQH32MN2R2K23 | 10   |
| 6   | LQH32MN2R7K23 | 10   |
| 7   | LQH32MN3R3K23 | 10   |
| 8   | LQH32MN3R9K23 | 10   |
| 9   | LQH32MN4R7K23 | 10   |
| 10  | LQH32MN5R6K23 | 10   |
| 11  | LQH32MN6R8K23 | 10   |
| 12  | LQH32MN8R2K23 | 10   |
| 13  | LQH32MN100K23 | 10   |
| 14  | LQH32MN120K23 | 10   |
| 15  | LQH32MN150K23 | 10   |
| 16  | LQH32MN180K23 | 10   |
| 17  | LQH32MN220K23 | 10   |
| 18  | LQH32MN270K23 | 10   |
| 19  | LQH32MN330K23 | 10   |
| 20  | LQH32MN390K23 | 10   |
| 21  | LQH32MN470K23 | 10   |
| 22  | LQH32MN560K23 | 10   |
| 23  | LQH32MN680K23 | 10   |
| 24  | LQH32MN820K23 | 10   |
| 25  | LQH32MN101K23 | 10   |
| 26  | LQH32MN121K23 | 10   |
| 27  | LQH32MN151K23 | 10   |
| 28  | LQH32MN181K23 | 10   |
| 29  | LQH32MN221K23 | 10   |
| 30  | LQH32MN271K23 | 10   |
| 31  | LQH32MN331K23 | 10   |
| 32  | LQH32MN391K23 | 10   |
| 33  | LQH32MN471K23 | 10   |
| 34  | LQH32MN561K23 | 10   |

## SURFACE MOUNT INDUCTORS

### EKLMH43MB

■ SURFACE MOUNT 1812 GENERAL USE  
WIRE WOUND TYPE

| No. | Part Number   | Qty. |
|-----|---------------|------|
| 1   | LQH43MN1R0M03 | 10   |
| 2   | LQH43MN1R2M03 | 10   |
| 3   | LQH43MN1R5M03 | 10   |
| 4   | LQH43MN1R8M03 | 10   |
| 5   | LQJ43MN2R2M03 | 10   |
| 6   | LQH43MN2R7M03 | 10   |
| 7   | LQH43MN3R3M03 | 10   |
| 8   | LQH43MN3R9M03 | 10   |
| 9   | LQH43MN4R7K03 | 10   |
| 10  | LQH43MN5R6K03 | 10   |
| 11  | LQH43MN6R8K03 | 10   |
| 12  | LQH43MN8R2K03 | 10   |
| 13  | LQH43MN100K03 | 10   |
| 14  | LQH43MN120K03 | 10   |
| 15  | LQH43MN150K03 | 10   |
| 16  | LQH43MN180K03 | 10   |
| 17  | LQH43MN220K03 | 10   |
| 18  | LQH43MN270K03 | 10   |
| 19  | LQH43MN330K03 | 10   |
| 20  | LQH43MN390K03 | 10   |
| 21  | LQH43MN470K03 | 10   |
| 22  | LQH43MN560K03 | 10   |
| 23  | LQH43MN680K03 | 10   |
| 24  | LQH43MN820K03 | 10   |
| 25  | LQH43MN101K03 | 10   |
| 26  | LQH43MN121K03 | 10   |
| 27  | LQH43MN151K03 | 10   |
| 28  | LQH43MN181K03 | 10   |
| 29  | LQH43MN221K03 | 10   |
| 30  | LQH43MN271K03 | 10   |
| 31  | LQH43MN331K03 | 10   |
| 32  | LQH43MN391K03 | 10   |
| 33  | LQH43MN471K03 | 10   |
| 34  | LQH43MN561K03 | 10   |
| 35  | LQH43MN681K03 | 10   |
| 36  | LQH43MN821K03 | 10   |
| 37  | LQH43MN102K03 | 10   |
| 38  | LQH43MN122K03 | 10   |
| 39  | LQH43MN152K03 | 10   |
| 40  | LQH43NN182K03 | 10   |
| 41  | LQH43NN222K03 | 10   |

### EKLMQM2PD

■ SURFACE MOUNT 0805, 0806, 1008,  
1206 FOR DC-DC CONVERTER  
MONOLITHIC TYPE

| No. | Part Number   | Qty. |
|-----|---------------|------|
| 1   | LQM21PNR47MC0 | 10   |
| 2   | LQM21PN1R0MC0 | 10   |
| 3   | LQM21PN1R5MC0 | 10   |
| 4   | LQM21PN2R2MC0 | 10   |
| 5   | LQM21PNR54MG0 | 10   |
| 6   | LQM2MPNR47NG0 | 10   |
| 7   | LQM2MPN1R0NG0 | 10   |
| 8   | LQM2MPN1R5NG0 | 10   |
| 9   | LQM2MPN2R2NG0 | 10   |
| 10  | LQM2MPN3R3NG0 | 10   |
| 11  | LQM2MPN4R7NG0 | 10   |
| 12  | LQM2HPNR56ME0 | 10   |
| 13  | LQM2HPNR47MG0 | 10   |
| 14  | LQM2HPN1R0MG0 | 10   |
| 15  | LQM2HPN1R5MG0 | 10   |
| 16  | LQM2HPN2R2MG0 | 10   |
| 17  | LQM2HPN3R3MG0 | 10   |
| 18  | LQM2HPN4R7MG0 | 10   |
| 19  | LQM2HPN1R0MJ0 | 10   |
| 20  | LQM2HPN2R2MJ0 | 10   |
| 21  | LQM2HPN3R3MJ0 | 10   |
| 22  | LQM31PNR47MC0 | 10   |
| 23  | LQM31PN1R0MC0 | 10   |
| 24  | LQM31PN1R5MC0 | 10   |
| 25  | LQM31PN2R2MC0 | 10   |
| 26  | LQM31PNR47M00 | 10   |
| 27  | LQM31PN1R0M00 | 10   |
| 28  | LQM31PN1R5M00 | 10   |
| 29  | LQM31PN2R2M00 | 10   |
| 30  | LQM31PN3R3M00 | 10   |
| 31  | LQM31PN4R7M00 | 10   |

### EKLMH2MCF

■ SURFACE MOUNT 0806 FOR DC-DC  
CONVERTER WIRE WOUND TYPE

| No. | Part Number   | Qty. |
|-----|---------------|------|
| 1   | LQH2MCN1R0M02 | 10   |
| 2   | LQH2MCN1R5M02 | 10   |
| 3   | LQH2MCN2R2M02 | 10   |
| 4   | LQH2MCN3R3M02 | 10   |
| 5   | LQH2MCN4R7M02 | 10   |
| 6   | LQH2MCN5R6M02 | 10   |
| 7   | LQH2MCN6R8M02 | 10   |
| 8   | LQH2MCN8R2M02 | 10   |
| 9   | LQH2MCN100K02 | 10   |
| 10  | LQH2MCN120K02 | 10   |
| 11  | LQH2MCN150K02 | 10   |
| 12  | LQH2MCN180K02 | 10   |
| 13  | LQH2MCN220K02 | 10   |
| 14  | LQH2MCN270K02 | 10   |
| 15  | LQH2MCN330K02 | 10   |
| 16  | LQH2MCN390K02 | 10   |
| 17  | LQH2MCN470K02 | 10   |
| 18  | LQH2MCN560K02 | 10   |
| 19  | LQH2MCN680K02 | 10   |
| 20  | LQH2MCN820K02 | 10   |
| 21  | LQH2MCN1R0M52 | 10   |
| 22  | LQH2MCN1R5M52 | 10   |
| 23  | LQH2MCN2R2M52 | 10   |
| 24  | LQH2MCN3R3M52 | 10   |
| 25  | LQH2MCN4R7M52 | 10   |
| 26  | LQH2MCN6R8M52 | 10   |
| 27  | LQH2MCN100M52 | 10   |
| 28  | LQH2MCN120M52 | 10   |
| 29  | LQH2MCN150M52 | 10   |
| 30  | LQH2MCN180M52 | 10   |
| 31  | LQH2MCN220M52 | 10   |

### SURFACE MOUNT INDUCTORS

#### EKLMQH3PC

■ SURFACE MOUNT 1210, 1212 FOR DC-DC CONVERTER WIRE WOUND TYPE

| No. | Part Number   | Qty. |
|-----|---------------|------|
| 1   | LQH3NPN1R0NG0 | 10   |
| 2   | LQH3NPN1R5NG0 | 10   |
| 3   | LQH3NPN2R2NG0 | 10   |
| 4   | LQH3NPN3R3NG0 | 10   |
| 5   | LQH3NPN4R7NG0 | 10   |
| 6   | LQH3NPN6R8NG0 | 10   |
| 7   | LQH3NPN100NG0 | 10   |
| 8   | LQH3NPN150NG0 | 10   |
| 9   | LQH3NPN220MG0 | 10   |
| 10  | LQH3NPN330MG0 | 10   |
| 11  | LQH3NPN470MG0 | 10   |
| 12  | LQH3NPN680MG0 | 10   |
| 13  | LQH3NPN101MG0 | 10   |
| 14  | LQH3NPN151MG0 | 10   |
| 15  | LQH3NPN221MG0 | 10   |
| 16  | LQH3NPN251MG0 | 10   |
| 17  | LQH3NPN1R0NJ0 | 10   |
| 18  | LQH3NPN1R5NJ0 | 10   |
| 19  | LQH3NPN2R2NJ0 | 10   |
| 20  | LQH3NPN3R3NJ0 | 10   |
| 21  | LQH3NPN4R7NJ0 | 10   |
| 22  | LQH3NPN6R8NJ0 | 10   |
| 23  | LQH3NPN100NJ0 | 10   |
| 24  | LQH3NPN150NJ0 | 10   |
| 25  | LQH3NPN220MJ0 | 10   |
| 26  | LQH3NPN330MJ0 | 10   |
| 27  | LQH3NPN470MJ0 | 10   |
| 28  | LQH3NPN1R0MM0 | 10   |
| 29  | LQH3NPN2R2MM0 | 10   |
| 30  | LQH3NPN3R3MM0 | 10   |
| 31  | LQH3NPN4R7MM0 | 10   |
| 32  | LQH3NPN6R8MM0 | 10   |
| 33  | LQH3NPN100MM0 | 10   |
| 34  | LQH3NPN1R0NM0 | 10   |
| 35  | LQH3NPN2R2NM0 | 10   |
| 36  | LQH3NPN3R3NM0 | 10   |
| 37  | LQH3NPN4R7NM0 | 10   |
| 38  | LQH3NPN6R8NM0 | 10   |
| 39  | LQH3NPN100NM0 | 10   |
| 40  | LQH3NPN220MM0 | 10   |
| 41  | LQH3NPN330MM0 | 10   |
| 42  | LQH3NPN470MM0 | 10   |
| 43  | LQH3NPN101MM0 | 10   |
| 44  | LQH32PNR47NN0 | 10   |
| 45  | LQH32PN1R0NN0 | 10   |
| 46  | LQH32PN1R5NN0 | 10   |
| 47  | LQH32PN2R2NN0 | 10   |
| 48  | LQH32PN3R3NN0 | 10   |
| 49  | LQH32PN4R7NN0 | 10   |
| 50  | LQH32PN6R8NN0 | 10   |
| 51  | LQH32PN100MN0 | 10   |
| 52  | LQH32PN220MN0 | 10   |

#### EKLMM18FB

■ SURFACE MOUNT 0603 AND 0805 CHOKE MONOLITHIC TYPE

| No. | Part Number   | Qty. |
|-----|---------------|------|
| 1   | LQM18FN1R0M00 | 10   |
| 2   | LQM18FN2R2M00 | 10   |
| 3   | LQM18FN4R7M00 | 10   |
| 4   | LQM18FN100M00 | 10   |
| 5   | LQM21FN1R0N00 | 10   |
| 6   | LQM21FN2R2N00 | 10   |
| 7   | LQM21FN4R7M70 | 10   |
| 8   | LQM21FN4R7M80 | 10   |
| 9   | LQM21FN100M70 | 10   |
| 10  | LQM21FN100M80 | 10   |
| 11  | LQM21FN220N00 | 10   |
| 12  | LQM21FN470N00 | 10   |
| 13  | LQM31FN100M00 | 10   |

#### EKLMMH32CC

■ SURFACE MOUNT 1210 FOR CHOKE WIRE WOUND TYPE

| No. | Part Number   | Qty. |
|-----|---------------|------|
| 1   | LQH32CNR15M33 | 10   |
| 2   | LQH32CNR27M33 | 10   |
| 3   | LQH32CNR47M33 | 10   |
| 4   | LQH32CN1R0M33 | 10   |
| 5   | LQH32CN2R2M33 | 10   |
| 6   | LQH32CN4R7M33 | 10   |
| 7   | LQH32CN100K33 | 10   |
| 8   | LQH32CN1R0M23 | 10   |
| 9   | LQH32CN2R2M23 | 10   |
| 10  | LQH32CN4R7M23 | 10   |
| 11  | LQH32CN100K23 | 10   |
| 12  | LQH32CN220K23 | 10   |
| 13  | LQH32CN470K23 | 10   |
| 14  | LQH32CN101K23 | 10   |
| 15  | LQH32CN221K23 | 10   |
| 16  | LQH32CN331K23 | 10   |
| 17  | LQH32CN391K23 | 10   |
| 18  | LQH32CN471K23 | 10   |
| 19  | LQH32CN561K23 | 10   |
| 20  | LQH32CN1R0M53 | 10   |
| 21  | LQH32CN2R2M53 | 10   |
| 22  | LQH32CN4R7M53 | 10   |
| 23  | LQH32CN100K53 | 10   |
| 24  | LQH32CN150K53 | 10   |
| 25  | LQH32CN220K53 | 10   |
| 26  | LQH32CN330K53 | 10   |
| 27  | LQH32CN470K53 | 10   |
| 28  | LQH32CN680K53 | 10   |
| 29  | LQH32CN101K53 | 10   |

#### EKLMMH43CC

■ SURFACE MOUNT 1812 FOR CHOKE WIRE WOUND TYPE

| No. | Part Number   | Qty. |
|-----|---------------|------|
| 1   | LQH43CN1R0M03 | 10   |
| 2   | LQH43CN1R5M03 | 10   |
| 3   | LQH43CN2R2M03 | 10   |
| 4   | LQH43CN3R3M03 | 10   |
| 5   | LQH43CN4R7M03 | 10   |
| 6   | LQH43CN6R8M03 | 10   |
| 7   | LQH43CN100K03 | 10   |
| 8   | LQH43CN150K03 | 10   |
| 9   | LQH43CN220K03 | 10   |
| 10  | LQH43CN330K03 | 10   |
| 11  | LQH43CN470K03 | 10   |
| 12  | LQH43CN680K03 | 10   |
| 13  | LQH43CN101K03 | 10   |
| 14  | LQH43CN151K03 | 10   |
| 15  | LQH43CN221K03 | 10   |
| 16  | LQH43CN331K03 | 10   |
| 17  | LQH43CN471K03 | 10   |

#### EKLMMH43CC

■ SURFACE MOUNT 4.0X4.0MM FOR CHOKE WIRE WOUND TYPE

| No. | Part Number   | Qty. |
|-----|---------------|------|
| 1   | LQH44PN1R0NP0 | 10   |
| 2   | LQH44PN2R2MP0 | 10   |
| 3   | LQH44PN3R3MP0 | 10   |
| 4   | LQH44PN4R7MP0 | 10   |
| 5   | LQH44PN6R8MP0 | 10   |
| 6   | LQH44PN100MP0 | 10   |
| 7   | LQH44PN220MP0 | 10   |

#### EKLMMH5PA

■ SURFACE MOUNT 5.0X5.0MM FOR CHOKE WIRE WOUND TYPE

| No. | Part Number   | Qty. |
|-----|---------------|------|
| 1   | LQH55PN1R2NR0 | 10   |
| 2   | LQH55PN2R2NR0 | 10   |
| 3   | LQH55PN2R7NR0 | 10   |
| 4   | LQH55PN3R3NR0 | 10   |
| 5   | LQH55PN4R7NR0 | 10   |
| 6   | LQH55PN6R8NR0 | 10   |
| 7   | LQH55PN100MR0 | 10   |
| 8   | LQH55PN220MR0 | 10   |

## CHIP THERMISTORS

### NCKIT001

■ 0201, 0402 CHIP  
NTC THERMISTORS

| No. | Part Number     | Qty. |
|-----|-----------------|------|
| 1   | NCP15XC220J03RC | 20   |
| 2   | NCP15XC470J03RC | 20   |
| 3   | NCP15XF101J03RC | 20   |
| 4   | NCP15XM221J03RC | 20   |
| 5   | NCP15XQ471J03RC | 20   |
| 6   | NCP15XQ102J03RC | 20   |
| 7   | NCP15XW222J03RC | 20   |
| 8   | NCP15XM472J03RC | 20   |
| 9   | NCP15XW682J03RC | 20   |
| 10  | NCP15XH103J03RC | 20   |
| 11  | NCP15XV103J03RC | 20   |
| 12  | NCP15XW153J03RC | 20   |
| 13  | NCP15XW223J03RC | 20   |
| 14  | NCP15WL223J03RC | 20   |
| 15  | NCP15WB333J03RC | 20   |
| 16  | NCP15WL333J03RC | 20   |
| 17  | NCP15WB473J03RC | 20   |
| 18  | NCP15WL473J03RC | 20   |
| 19  | NCP15WD683J03RC | 20   |
| 20  | NCP15WL683J03RC | 20   |
| 21  | NCP15WF104J03RC | 20   |
| 22  | NCP15WL104J03RC | 20   |
| 23  | NCP15WM154J03RC | 20   |
| 24  | NCP15WM224J03RC | 20   |
| 25  | NCP15WM474J03RC | 20   |
| 26  | NCP15XH103F03RC | 20   |
| 27  | NCP15WB473F03RC | 20   |
| 28  | NCP15WF104F03RC | 20   |
| 29  | NCP03YS220J05RL | 20   |
| 30  | NCP03XH103J05RL | 20   |
| 31  | NCP03WB473J05RL | 20   |
| 32  | NCP03WF104F05RL | 20   |

### NCKIT002

■ 0603 CHIP NTC THERMISTORS

| No. | Part Number     | Qty. |
|-----|-----------------|------|
| 1   | NCP18XM221J03RB | 20   |
| 2   | NCP18XM331J03RB | 20   |
| 3   | NCP18XQ471J03RB | 20   |
| 4   | NCP18XQ681J03RB | 20   |
| 5   | NCP18XQ102J03RB | 20   |
| 6   | NCP18XW152J03RB | 20   |
| 7   | NCP18XW222J03RB | 20   |
| 8   | NCP18XW332J03RB | 20   |
| 9   | NCP18XM472J03RB | 20   |
| 10  | NCP18XW682J03RB | 20   |
| 11  | NCP18XH103J03RB | 20   |
| 12  | NCP18XW153J03RB | 20   |
| 13  | NCP18XW223J03RB | 20   |
| 14  | NCP18WB333J03RB | 20   |
| 15  | NCP18WB473J03RB | 20   |
| 16  | NCP18WD683J03RB | 20   |
| 17  | NCP18WF104J03RB | 20   |
| 18  | NCP18WM154J03RB | 20   |
| 19  | NCP18WM224J03RB | 20   |
| 20  | NCP18WM474J03RB | 20   |
| 21  | NCP18XH103F03RB | 20   |

### NCKIT003

■ 0201, 0402, 0603 CHIP  
NTC THERMISTORS

| No. | Part Number     | Qty. |
|-----|-----------------|------|
| 1   | NCP18XM472J03RB | 20   |
| 2   | NCP18XH103J03RB | 20   |
| 3   | NCP18XH103F03RB | 20   |
| 4   | NCP18WB473J03RB | 20   |
| 5   | NCP18WB473F10RB | 20   |
| 6   | NCP18WF104J03RB | 20   |
| 7   | NCP18WF104F12RB | 20   |
| 8   | NCP15XM472J03RC | 20   |
| 9   | NCP15XH103J03RC | 20   |
| 10  | NCP15XH103F03RC | 20   |
| 11  | NCP15WB473J03RC | 20   |
| 12  | NCP15WB473F03RC | 20   |
| 13  | NCP15WF104J03RC | 20   |
| 14  | NCP15WF104F03RC | 20   |
| 15  | NCP03XH103J05RL | 20   |
| 16  | NCP03WB473J05RL | 20   |

### NCKIT0S1

■ 0402, 0603 CHIP  
NTC THERMISTORS FOR  
AUTOMOTIVE APPLICATIONS

| No. | Part Number     | Qty. |
|-----|-----------------|------|
| 1   | NCP15XF101J0SRC | 20   |
| 2   | NCP15XQ102J0SRC | 20   |
| 3   | NCP15XM472J0SRC | 20   |
| 4   | NCP15XH103F0SRC | 20   |
| 5   | NCP15XW223J0SRC | 20   |
| 6   | NCP15WB473F0SRC | 20   |
| 7   | NCP15WF104F0SRC | 20   |
| 8   | NCP15WM474J0SRC | 20   |
| 9   | NCP18XF101J0SRB | 20   |
| 10  | NCP18XQ102J0SRB | 20   |
| 11  | NCP18XM472J0SRB | 20   |
| 12  | NCP18XH103F0SRB | 20   |
| 13  | NCP18XW223J0SRB | 20   |
| 14  | NCP18WB473F1SRB | 20   |
| 15  | NCP18WF104F3SRB | 20   |
| 16  | NCP18WM474J0SRB | 20   |

### PRKIT001

■ 0402, 0603, 0805 OVERCURRENT  
AND OVERHEAT PROTECTION

| No. | Part Number     | Qty. |
|-----|-----------------|------|
| 1   | PRG18BB471MB1RB | 20   |
| 2   | PRG18BB221MB1RB | 20   |
| 3   | PRG18BB101MB1RB | 20   |
| 4   | PRG18BB470MB1RB | 20   |
| 5   | PRG18BB330MB1RB | 20   |
| 6   | PRG21BB220MB1RK | 20   |
| 7   | PRG21BB150MB1RK | 20   |
| 8   | PRG18BC6R8MM1RB | 20   |
| 9   | PRG18BC4R7MM1RB | 20   |
| 10  | PRG21BC6R8MM1RA | 20   |
| 11  | PRG21BC4R7MM1RA | 20   |
| 12  | PRG21BC3R3MM1RA | 20   |
| 13  | PRG21BC2R2MM1RA | 20   |
| 14  | PRG21BC1R0MM1RA | 20   |
| 15  | PRG21BC0R6MM1RA | 20   |
| 16  | PRG21BC0R2MM1RA | 20   |
| 17  | PRF18BG471QB5RB | 20   |
| 18  | PRF18BF471QB5RB | 20   |
| 19  | PRF18BE471QB5RB | 20   |
| 20  | PRF18BD471QB5RB | 20   |
| 21  | PRF18BC471QB5RB | 20   |
| 22  | PRF18BB471QB5RB | 20   |
| 23  | PRF18BA471QB5RB | 20   |
| 24  | PRF18AR471QB5RB | 20   |
| 25  | PRF18AS471QB5RB | 20   |
| 26  | PRF15BC471QB1RC | 20   |
| 27  | PRF15BB471QB1RC | 20   |
| 28  | PRF15BA471QB1RC | 20   |
| 29  | PRF18BE471RB5RB | 20   |
| 30  | PRF18BD471RB5RB | 20   |
| 31  | PRF18BC471RB5RB | 20   |
| 32  | PRF18BB471RB5RB | 20   |

## CHIP THERMISTORS

### **PRKIT0S1**

■ 0603, 0805 OVERCURRENT & OVERHEAT PROTECTION FOR AUTOMOTIVE APPLICATIONS

| No. | Part Number     | Qty. |
|-----|-----------------|------|
| 1   | PRF18AS471QS5RB | 20   |
| 2   | PRF18AR471QS5RB | 20   |
| 3   | PRF18BA471QS5RB | 20   |
| 4   | PRF18BB471QS5RB | 20   |
| 5   | PRF18BC471QS5RB | 20   |
| 6   | PRF18BD471QS5RB | 20   |
| 7   | PRF18BE471QS5RB | 20   |
| 8   | PRF18BF471QS5RB | 20   |
| 9   | PRF18BG471QS5RB | 20   |
| 10  | PRF18BB471RS5RB | 20   |
| 11  | PRF18BC471RS5RB | 20   |
| 12  | PRF18BD471RS5RB | 20   |
| 13  | PRF18BE471RS5RB | 20   |
| 14  | PRG21AR420MS1RA | 20   |
| 15  | PRG21AR220MS1RK | 20   |

### **NCPRKIT001**

■ 0402, 0603 CHIP NTS THERMISTORS & 0603, 0805 PTC THERMISTORS FOR OVERCURRENT AND OVERHEAT PROTECTION

| No. | Part Number     | Qty. |
|-----|-----------------|------|
| 1   | NCP15XH103F03RC | 20   |
| 2   | NCP15WB473F03RC | 20   |
| 3   | NCP15WF104F03RC | 20   |
| 4   | NCP15XM472J03RC | 20   |
| 5   | NCP15XW223J03RC | 20   |
| 6   | NCP15WD683J03RC | 20   |
| 7   | NCP15WM224J03RC | 20   |
| 8   | NCP15WM474J03RC | 20   |
| 9   | NCP18XH103F03RB | 20   |
| 10  | NCP18WB473F10RB | 20   |
| 11  | NCP18WF104F12RB | 20   |
| 12  | NCP18XM472J03RB | 20   |
| 13  | NCP18XW223J03RB | 20   |
| 14  | NCP18WD683J03RB | 20   |
| 15  | NCP18WM224J03RB | 20   |
| 16  | NCP18WM474J03RB | 20   |
| 17  | PRG18BB101MB1RB | 20   |
| 18  | PRG18BB330MB1RB | 20   |
| 19  | PRG18BC6R8MM1RB | 20   |
| 20  | PRG18BC4R7MM1RB | 20   |
| 21  | PRG21BC3R3MM1RA | 20   |
| 22  | PRG21BC2R2MM1RA | 20   |
| 23  | PRG21BC1R0MM1RA | 20   |
| 24  | PRG21BC0R6MM1RA | 20   |
| 25  | PRG21BC0R2MM1RA | 20   |
| 26  | PRF18BE471QB5RB | 20   |
| 27  | PRF18BD471QB5RB | 20   |
| 28  | PRF18BC471QB5RB | 20   |
| 29  | PRF18BB471QB5RB | 20   |
| 30  | PRF18BA471QB5RB | 20   |
| 31  | PRF18AR471QB5RB | 20   |
| 32  | PRF18AS471QB5RB | 20   |



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