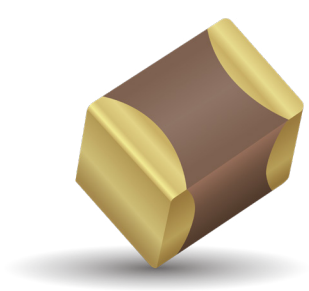


# MLCC Gold Termination – AU Series



## General Specifications



AVX Corporation will support those customers for commercial and military Multilayer Ceramic Capacitors with a termination consisting of Gold. This termination is indicated by the use of a “7” or “G” in the 12th position of the AVX Catalog Part Number. This fulfills AVX’s commitment to providing a full range of products to our customers. Please contact the factory if you require additional information on our MLCC Gold Termination.

## PART NUMBER

| AU03                                                                                                                                                              | Y                                                                                                   | G                                   | 104                             | K                                                                                                                                             | A                  | 7                                                | 2                                                                                              | A                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-------------------------------------|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------------------------------------|------------------------------------------------------------------------------------------------|------------------|
| Size                                                                                                                                                              | Voltage                                                                                             | Dielectric                          | Capacitance Code (In pF)        | Capacitance Tolerance                                                                                                                         | Failure Rate       | Terminations                                     | Packaging                                                                                      | Special Code     |
| AU02 - 0402<br>AU03 - 0603<br>AU05 - 0805<br>AU06 - 1206<br>AU10 - 1210<br>AU12 - 1812<br>AU13 - 1825<br>AU14 - 2225<br>AU16 - 0306<br>AU17 - 0508<br>AU18 - 0612 | 6.3V = 6<br>10V = Z<br>16V = Y<br>25V = 3<br>35V = D<br>50V = 5<br>100V = 1<br>200V = 2<br>500V = 7 | C0G (NP0) = A<br>X7R = C<br>X5R = D | 2 Sig. Digits + Number of Zeros | B = ±10 pF (<10pF)<br>C = ±.25 pF (<10pF)<br>D = ±.50 pF (<10pF)<br>F = ±1% (≥ 10 pF)<br>G = ±2% (≥ 10 pF)<br>J = ±5%<br>K = ±10%<br>M = ±20% | A = Not Applicable | G* = 1.9 μ" to 7.87 μ"<br><br>7 = 100 μ" minimum | 2 = 7" Reel<br>4 = 13" Reel<br>U = 4mm TR (01005)<br><br><b>Contact Factory For Multiples*</b> | A = Std. Product |

\* Contact factory for availability.

# MLCC Gold Termination – AU Series

## Capacitance Range (NP0 Dielectric)



### PREFERRED SIZES ARE SHADED

| SIZE         | AU02                        |                 |    |     | AU03                        |                 |    |     | AU05                        |    |    |     |     | AU06                        |    |    |     |     |     |
|--------------|-----------------------------|-----------------|----|-----|-----------------------------|-----------------|----|-----|-----------------------------|----|----|-----|-----|-----------------------------|----|----|-----|-----|-----|
| Soldering    | Reflow/Epoxy/<br>Wire Bond* |                 |    |     | Reflow/Epoxy/<br>Wire Bond* |                 |    |     | Reflow/Epoxy/<br>Wire Bond* |    |    |     |     | Reflow/Epoxy/<br>Wire Bond* |    |    |     |     |     |
| Packaging    | All Paper                   |                 |    |     | All Paper                   |                 |    |     | Paper/Embossed              |    |    |     |     | Paper/Embossed              |    |    |     |     |     |
| (L) Length   | mm                          | 1.00 ± 0.10     |    |     | mm                          | 1.60 ± 0.15     |    |     | 2.01 ± 0.20                 |    |    |     |     | 3.20 ± 0.20                 |    |    |     |     |     |
|              | (in.)                       | (0.040 ± 0.004) |    |     |                             | (0.063 ± 0.006) |    |     | (0.079 ± 0.008)             |    |    |     |     | (0.126 ± 0.008)             |    |    |     |     |     |
| (W) Width    | mm                          | 0.50 ± 0.10     |    |     | mm                          | 0.81 ± 0.15     |    |     | 1.25 ± 0.20                 |    |    |     |     | 1.60 ± 0.20                 |    |    |     |     |     |
|              | (in.)                       | (0.020 ± 0.004) |    |     |                             | (0.032 ± 0.006) |    |     | (0.049 ± 0.008)             |    |    |     |     | (0.063 ± 0.008)             |    |    |     |     |     |
| (t) Terminal | mm                          | 0.25 ± 0.15     |    |     | mm                          | 0.35 ± 0.15     |    |     | 0.50 ± 0.25                 |    |    |     |     | 0.50 ± 0.25                 |    |    |     |     |     |
|              | (in.)                       | (0.010 ± 0.006) |    |     |                             | (0.014 ± 0.006) |    |     | (0.020 ± 0.010)             |    |    |     |     | (0.020 ± 0.010)             |    |    |     |     |     |
| WVDC         | 16                          | 25              | 50 | 100 | 16                          | 25              | 50 | 100 | 16                          | 25 | 50 | 100 | 200 | 16                          | 25 | 50 | 100 | 200 | 500 |
| Cap (pF)     | 0.5                         | C               | C  | C   | G                           | G               | G  | G   | J                           | J  | J  | J   | J   | J                           | J  | J  | J   | J   | J   |
|              | 1.0                         | C               | C  | C   | G                           | G               | G  | G   | J                           | J  | J  | J   | J   | J                           | J  | J  | J   | J   | J   |
|              | 1.2                         | C               | C  | C   | G                           | G               | G  | G   | J                           | J  | J  | J   | J   | J                           | J  | J  | J   | J   | J   |
|              | 1.5                         | C               | C  | C   | G                           | G               | G  | G   | J                           | J  | J  | J   | J   | J                           | J  | J  | J   | J   | J   |
|              | 1.8                         | C               | C  | C   | G                           | G               | G  | G   | J                           | J  | J  | J   | J   | J                           | J  | J  | J   | J   | J   |
|              | 2.2                         | C               | C  | C   | G                           | G               | G  | G   | J                           | J  | J  | J   | J   | J                           | J  | J  | J   | J   | J   |
|              | 2.7                         | C               | C  | C   | G                           | G               | G  | G   | J                           | J  | J  | J   | J   | J                           | J  | J  | J   | J   | J   |
|              | 3.3                         | C               | C  | C   | G                           | G               | G  | G   | J                           | J  | J  | J   | J   | J                           | J  | J  | J   | J   | J   |
|              | 3.9                         | C               | C  | C   | G                           | G               | G  | G   | J                           | J  | J  | J   | J   | J                           | J  | J  | J   | J   | J   |
|              | 4.7                         | C               | C  | C   | G                           | G               | G  | G   | J                           | J  | J  | J   | J   | J                           | J  | J  | J   | J   | J   |
|              | 5.6                         | C               | C  | C   | G                           | G               | G  | G   | J                           | J  | J  | J   | J   | J                           | J  | J  | J   | J   | J   |
|              | 6.8                         | C               | C  | C   | G                           | G               | G  | G   | J                           | J  | J  | J   | J   | J                           | J  | J  | J   | J   | J   |
|              | 8.2                         | C               | C  | C   | G                           | G               | G  | G   | J                           | J  | J  | J   | J   | J                           | J  | J  | J   | J   | J   |
|              | 10                          | C               | C  | C   | G                           | G               | G  | G   | J                           | J  | J  | J   | J   | J                           | J  | J  | J   | J   | J   |
|              | 12                          | C               | C  | C   | G                           | G               | G  | G   | J                           | J  | J  | J   | J   | J                           | J  | J  | J   | J   | J   |
|              | 15                          | C               | C  | C   | G                           | G               | G  | G   | J                           | J  | J  | J   | J   | J                           | J  | J  | J   | J   | J   |
|              | 18                          | C               | C  | C   | G                           | G               | G  | G   | J                           | J  | J  | J   | J   | J                           | J  | J  | J   | J   | J   |
|              | 22                          | C               | C  | C   | G                           | G               | G  | G   | J                           | J  | J  | J   | J   | J                           | J  | J  | J   | J   | J   |
|              | 27                          | C               | C  | C   | G                           | G               | G  | G   | J                           | J  | J  | J   | J   | J                           | J  | J  | J   | J   | J   |
|              | 33                          | C               | C  | C   | G                           | G               | G  | G   | J                           | J  | J  | J   | J   | J                           | J  | J  | J   | J   | J   |
|              | 39                          | C               | C  | C   | G                           | G               | G  | G   | J                           | J  | J  | J   | J   | J                           | J  | J  | J   | J   | J   |
|              | 47                          | C               | C  | C   | G                           | G               | G  | G   | J                           | J  | J  | J   | J   | J                           | J  | J  | J   | J   | J   |
|              | 56                          | C               | C  | C   | G                           | G               | G  | G   | J                           | J  | J  | J   | J   | J                           | J  | J  | J   | J   | J   |
|              | 68                          | C               | C  | C   | G                           | G               | G  | G   | J                           | J  | J  | J   | J   | J                           | J  | J  | J   | J   | J   |
|              | 82                          | C               | C  | C   | G                           | G               | G  | G   | J                           | J  | J  | J   | J   | J                           | J  | J  | J   | J   | J   |
|              | 100                         | C               | C  | C   | G                           | G               | G  | G   | J                           | J  | J  | J   | J   | J                           | J  | J  | J   | J   | J   |
|              | 120                         | C               | C  | C   | G                           | G               | G  | G   | J                           | J  | J  | J   | J   | J                           | J  | J  | J   | J   | J   |
|              | 150                         | C               | C  | C   | G                           | G               | G  | G   | J                           | J  | J  | J   | J   | J                           | J  | J  | J   | J   | J   |
|              | 180                         | C               | C  | C   | G                           | G               | G  | G   | J                           | J  | J  | J   | J   | J                           | J  | J  | J   | J   | J   |
|              | 220                         | C               | C  | C   | G                           | G               | G  | G   | J                           | J  | J  | J   | J   | J                           | J  | J  | J   | J   | M   |
|              | 270                         | C               | C  | C   | G                           | G               | G  | G   | J                           | J  | J  | J   | M   | J                           | J  | J  | J   | J   | M   |
|              | 330                         | C               | C  | C   | G                           | G               | G  | G   | J                           | J  | J  | J   | M   | J                           | J  | J  | J   | J   | M   |
|              | 390                         | C               | C  | C   | G                           | G               | G  | G   | J                           | J  | J  | J   | M   | J                           | J  | J  | J   | J   | M   |
|              | 470                         | C               | C  | C   | G                           | G               | G  | G   | J                           | J  | J  | J   | M   | J                           | J  | J  | J   | J   | M   |
|              | 560                         |                 |    |     | G                           | G               | G  |     | J                           | J  | J  | J   | M   | J                           | J  | J  | J   | J   | M   |
|              | 680                         |                 |    |     | G                           | G               | G  |     | J                           | J  | J  | J   | M   | J                           | J  | J  | J   | J   | P   |
|              | 820                         |                 |    |     | G                           | G               | G  |     | J                           | J  | J  | J   | M   | J                           | J  | J  | J   | M   |     |
|              | 1000                        |                 |    |     | G                           | G               | G  |     | J                           | J  | J  | J   | M   | J                           | J  | J  | J   | Q   |     |
|              | 1200                        |                 |    |     |                             |                 |    |     | J                           | J  | J  |     |     | J                           | J  | J  | J   | Q   |     |
|              | 1500                        |                 |    |     |                             |                 |    |     | J                           | J  | J  |     |     | J                           | J  | J  | M   | Q   |     |
|              | 1800                        |                 |    |     |                             |                 |    |     | J                           | J  | J  |     |     | J                           | J  | M  | M   |     |     |
|              | 2200                        |                 |    |     |                             |                 |    |     | J                           | J  | N  |     |     | J                           | J  | M  | P   |     |     |
|              | 2700                        |                 |    |     |                             |                 |    |     | J                           | J  | N  |     |     | J                           | J  | M  | P   |     |     |
|              | 3300                        |                 |    |     |                             |                 |    |     | J                           | J  |    |     |     | J                           | J  | M  | P   |     |     |
|              | 3900                        |                 |    |     |                             |                 |    |     | J                           | J  |    |     |     | J                           | J  | M  | P   |     |     |
|              | 4700                        |                 |    |     |                             |                 |    |     | J                           | J  |    |     |     | J                           | J  | M  | P   |     |     |
|              | 5600                        |                 |    |     |                             |                 |    |     |                             |    |    |     |     | J                           | J  | M  |     |     |     |
|              | 6800                        |                 |    |     |                             |                 |    |     |                             |    |    |     |     | M                           | M  |    |     |     |     |
|              | 8200                        |                 |    |     |                             |                 |    |     |                             |    |    |     |     | M                           | M  |    |     |     |     |
|              | 0.010                       |                 |    |     |                             |                 |    |     |                             |    |    |     |     |                             |    |    |     |     |     |
|              | 0.012                       |                 |    |     |                             |                 |    |     |                             |    |    |     |     |                             |    |    |     |     |     |
|              | 0.015                       |                 |    |     |                             |                 |    |     |                             |    |    |     |     |                             |    |    |     |     |     |
|              | 0.018                       |                 |    |     |                             |                 |    |     |                             |    |    |     |     |                             |    |    |     |     |     |
|              | 0.022                       |                 |    |     |                             |                 |    |     |                             |    |    |     |     |                             |    |    |     |     |     |
|              | 0.027                       |                 |    |     |                             |                 |    |     |                             |    |    |     |     |                             |    |    |     |     |     |
|              | 0.033                       |                 |    |     |                             |                 |    |     |                             |    |    |     |     |                             |    |    |     |     |     |
|              | 0.039                       |                 |    |     |                             |                 |    |     |                             |    |    |     |     |                             |    |    |     |     |     |
|              | 0.047                       |                 |    |     |                             |                 |    |     |                             |    |    |     |     |                             |    |    |     |     |     |
|              | 0.068                       |                 |    |     |                             |                 |    |     |                             |    |    |     |     |                             |    |    |     |     |     |
|              | 0.082                       |                 |    |     |                             |                 |    |     |                             |    |    |     |     |                             |    |    |     |     |     |
|              | 0.1                         |                 |    |     |                             |                 |    |     |                             |    |    |     |     |                             |    |    |     |     |     |
| WVDC         | 16                          | 25              | 50 | 100 | 16                          | 25              | 50 | 100 | 16                          | 25 | 50 | 100 | 200 | 16                          | 25 | 50 | 100 | 200 | 500 |
| SIZE         | AU02                        |                 |    |     | AU03                        |                 |    |     | AU05                        |    |    |     |     | AU06                        |    |    |     |     |     |

\* Contact Factory

| Letter         | A               | C               | E               | G               | J               | K               | M               | N               | P               | Q               | X               | Y               | Z               |
|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Max. Thickness | 0.33<br>(0.013) | 0.56<br>(0.022) | 0.71<br>(0.028) | 0.90<br>(0.035) | 0.94<br>(0.037) | 1.02<br>(0.040) | 1.27<br>(0.050) | 1.40<br>(0.055) | 1.52<br>(0.060) | 1.78<br>(0.070) | 2.29<br>(0.090) | 2.54<br>(0.100) | 2.79<br>(0.110) |
| PAPER          |                 |                 |                 |                 |                 | EMBOSSED        |                 |                 |                 |                 |                 |                 |                 |



The Important Information/Disclaimer is incorporated in these specifications by reference and should be reviewed in full before placing any order.

MLCC Gold Termination – AU Series

Capacitance Range (NP0 Dielectric)

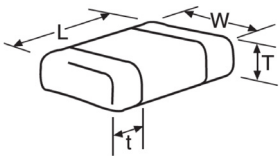


PREFERRED SIZES ARE SHADED

| SIZE         |            | AU10                           |    |     |     |     | AU12                           |    |     |     |     | AU13                           |     |     | AU14                           |     |     |
|--------------|------------|--------------------------------|----|-----|-----|-----|--------------------------------|----|-----|-----|-----|--------------------------------|-----|-----|--------------------------------|-----|-----|
| Soldering    |            | Reflow/Epoxy/<br>Wire Bond*    |    |     |     |     | Reflow/Epoxy/<br>Wire Bond*    |    |     |     |     | Reflow/Epoxy/<br>Wire Bond*    |     |     | Reflow/Epoxy/<br>Wire Bond*    |     |     |
| Packaging    |            | Paper/Embossed                 |    |     |     |     | All Embossed                   |    |     |     |     | All Embossed                   |     |     | All Embossed                   |     |     |
| (L) Length   | mm<br>(in) | 3.20 ± 0.20<br>(0.126 ± 0.008) |    |     |     |     | 4.50 ± 0.30<br>(0.177 ± 0.012) |    |     |     |     | 4.50 ± 0.30<br>(0.177 ± 0.012) |     |     | 5.72 ± 0.25<br>(0.225 ± 0.010) |     |     |
| W) Width     | mm<br>(in) | 2.50 ± 0.20<br>(0.098 ± 0.008) |    |     |     |     | 3.20 ± 0.20<br>(0.126 ± 0.008) |    |     |     |     | 6.40 ± 0.40<br>(0.252 ± 0.016) |     |     | 6.35 ± 0.25<br>(0.250 ± 0.010) |     |     |
| (t) Terminal | mm<br>(in) | 0.50 ± 0.25<br>(0.020 ± 0.010) |    |     |     |     | 0.61 ± 0.36<br>(0.024 ± 0.014) |    |     |     |     | 0.61 ± 0.36<br>(0.024 ± 0.014) |     |     | 0.64 ± 0.39<br>(0.025 ± 0.015) |     |     |
| WVDC         |            | 25                             | 50 | 100 | 200 | 500 | 25                             | 50 | 100 | 200 | 500 | 50                             | 100 | 200 | 50                             | 100 | 200 |
| Cap<br>(pF)  | 0.5        |                                |    |     |     |     |                                |    |     |     |     |                                |     |     |                                |     |     |
|              | 1.0        |                                |    |     |     |     |                                |    |     |     |     |                                |     |     |                                |     |     |
|              | 1.2        |                                |    |     |     |     |                                |    |     |     |     |                                |     |     |                                |     |     |
|              | 1.5        |                                |    |     |     |     |                                |    |     |     |     |                                |     |     |                                |     |     |
|              | 1.8        |                                |    |     |     |     |                                |    |     |     |     |                                |     |     |                                |     |     |
|              | 2.2        |                                |    |     |     |     |                                |    |     |     |     |                                |     |     |                                |     |     |
|              | 2.7        |                                |    |     |     |     |                                |    |     |     |     |                                |     |     |                                |     |     |
|              | 3.3        |                                |    |     |     |     |                                |    |     |     |     |                                |     |     |                                |     |     |
|              | 3.9        |                                |    |     |     |     |                                |    |     |     |     |                                |     |     |                                |     |     |
|              | 4.7        |                                |    |     |     |     |                                |    |     |     |     |                                |     |     |                                |     |     |
|              | 5.6        |                                |    |     |     |     |                                |    |     |     |     |                                |     |     |                                |     |     |
|              | 6.8        |                                |    |     |     |     |                                |    |     |     |     |                                |     |     |                                |     |     |
|              | 8.2        |                                |    |     |     |     |                                |    |     |     |     |                                |     |     |                                |     |     |
|              | 10         |                                |    |     |     | J   |                                |    |     |     |     |                                |     |     |                                |     |     |
|              | 12         |                                |    |     |     | J   |                                |    |     |     |     |                                |     |     |                                |     |     |
|              | 15         |                                |    |     |     | J   |                                |    |     |     |     |                                |     |     |                                |     |     |
|              | 18         |                                |    |     |     | J   |                                |    |     |     |     |                                |     |     |                                |     |     |
|              | 22         |                                |    |     |     | J   |                                |    |     |     |     |                                |     |     |                                |     |     |
|              | 27         |                                |    |     |     | J   |                                |    |     |     |     |                                |     |     |                                |     |     |
|              | 33         |                                |    |     |     | J   |                                |    |     |     |     |                                |     |     |                                |     |     |
|              | 39         |                                |    |     |     | J   |                                |    |     |     |     |                                |     |     |                                |     |     |
|              | 47         |                                |    |     |     | J   |                                |    |     |     |     |                                |     |     |                                |     |     |
|              | 56         |                                |    |     |     | J   |                                |    |     |     |     |                                |     |     |                                |     |     |
|              | 68         |                                |    |     |     | J   |                                |    |     |     |     |                                |     |     |                                |     |     |
|              | 82         |                                |    |     |     | J   |                                |    |     |     |     |                                |     |     |                                |     |     |
|              | 100        |                                |    |     |     | J   |                                |    |     |     |     |                                |     |     |                                |     |     |
|              | 120        |                                |    |     |     | J   |                                |    |     |     |     |                                |     |     |                                |     |     |
|              | 150        |                                |    |     |     | J   |                                |    |     |     |     |                                |     |     |                                |     |     |
|              | 180        |                                |    |     |     | J   |                                |    |     |     |     |                                |     |     |                                |     |     |
|              | 220        |                                |    |     |     | J   |                                |    |     |     |     |                                |     |     |                                |     |     |
|              | 270        |                                |    |     |     | J   |                                |    |     |     |     |                                |     |     |                                |     |     |
|              | 330        |                                |    |     |     | J   |                                |    |     |     |     |                                |     |     |                                |     |     |
|              | 390        |                                |    |     |     | M   |                                |    |     |     |     |                                |     |     |                                |     |     |
|              | 470        |                                |    |     |     | M   |                                |    |     |     |     |                                |     |     |                                |     |     |
|              | 560        | J                              | J  | J   | J   | M   |                                |    |     |     |     |                                |     |     |                                |     |     |
|              | 680        | J                              | J  | J   | J   | M   |                                |    |     |     |     |                                |     |     |                                |     |     |
|              | 820        | J                              | J  | J   | J   | M   |                                |    |     |     |     |                                |     |     |                                |     |     |
|              | 1000       | J                              | J  | J   | J   | M   | K                              | K  | K   | K   | M   | M                              | M   | M   | M                              | M   | P   |
|              | 1200       | J                              | J  | J   | M   | M   | K                              | K  | K   | K   | M   | M                              | M   | M   | M                              | M   | P   |
|              | 1500       | J                              | J  | J   | M   | M   | K                              | K  | K   | K   | M   | M                              | M   | M   | M                              | M   | P   |
|              | 1800       | J                              | J  | J   | M   |     | K                              | K  | K   | K   | M   | M                              | M   | M   | M                              | M   | P   |
|              | 2200       | J                              | J  | J   | Q   |     | K                              | K  | K   | K   | P   | M                              | M   | M   | M                              | M   | P   |
|              | 2700       | J                              | J  | J   | Q   |     | K                              | K  | K   | P   | Q   | M                              | M   | M   | M                              | M   | P   |
|              | 3300       | J                              | J  | J   |     |     | K                              | K  | K   | P   | Q   | M                              | M   | M   | M                              | M   | P   |
|              | 3900       | J                              | J  | M   |     |     | K                              | K  | K   | P   | Q   | M                              | M   | M   | M                              | M   | P   |
|              | 4700       | J                              | J  | M   |     |     | K                              | K  | K   | P   | Q   | M                              | M   | M   | M                              | M   | P   |
|              | 5600       | J                              | J  |     |     |     | K                              | K  | M   | P   | X   | M                              | M   | M   | M                              | M   | P   |
|              | 6800       | J                              | J  |     |     |     | K                              | K  | M   | X   |     | M                              | M   | M   | M                              | M   | P   |
|              | 8200       | J                              | J  |     |     |     | K                              | M  | M   |     |     | M                              | M   |     | M                              | M   | P   |
|              | 0.010      | J                              | J  |     |     |     | K                              | M  | M   |     |     | M                              | M   |     | M                              | M   | P   |
|              | 0.012      | J                              | J  |     |     |     | K                              | M  |     |     |     | M                              | M   |     | M                              | M   | P   |
|              | 0.015      |                                |    |     |     |     | M                              | M  |     |     |     | M                              | M   |     | M                              | M   | Y   |
|              | 0.018      |                                |    |     |     |     | M                              | M  |     |     |     | P                              | M   |     | M                              | M   | Y   |
|              | 0.022      |                                |    |     |     |     | M                              | M  |     |     |     | P                              |     |     | M                              | Y   | Y   |
|              | 0.027      |                                |    |     |     |     | M                              | M  |     |     |     | P                              |     |     | P                              | Y   | Y   |
|              | 0.033      |                                |    |     |     |     | M                              | M  |     |     |     | P                              |     |     | P                              |     |     |
|              | 0.039      |                                |    |     |     |     | M                              | M  |     |     |     | P                              |     |     | P                              |     |     |
|              | 0.047      |                                |    |     |     |     | M                              | M  |     |     |     | P                              |     |     | P                              |     |     |
|              | 0.068      |                                |    |     |     |     | M                              | M  |     |     |     |                                |     |     | P                              |     |     |
|              | 0.082      |                                |    |     |     |     | M                              | M  |     |     |     |                                |     |     | Q                              |     |     |
|              | 0.1        |                                |    |     |     |     | M                              | M  |     |     |     |                                |     |     | Q                              |     |     |
| WVDC         |            | 25                             | 50 | 100 | 200 | 500 | 25                             | 50 | 100 | 200 | 500 | 50                             | 100 | 200 | 50                             | 100 | 200 |
| SIZE         |            | AU10                           |    |     |     |     | AU12                           |    |     |     |     | AU13                           |     |     | AU14                           |     |     |

\* Contact Factory

| Letter         | A               | C               | E               | G               | J               | K               | M               | N               | P               | Q               | X               | Y               | Z               |
|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Max. Thickness | 0.33<br>(0.013) | 0.56<br>(0.022) | 0.71<br>(0.028) | 0.90<br>(0.035) | 0.94<br>(0.037) | 1.02<br>(0.040) | 1.27<br>(0.050) | 1.40<br>(0.055) | 1.52<br>(0.060) | 1.78<br>(0.070) | 2.29<br>(0.090) | 2.54<br>(0.100) | 2.79<br>(0.110) |
| PAPER          |                 |                 |                 |                 |                 | EMBOSS          |                 |                 |                 |                 |                 |                 |                 |



MLCC Gold Termination – AU Series

Capacitance Range (X7R Dielectric)



PREFERRED SIZES ARE SHADED

| SIZE         |       | AU02                        |    |    |    | AU03                        |    |    |    |    |     | AU05                        |    |    |    |    |    | AU06                        |     |    |    |    |    |    |     |     |     |
|--------------|-------|-----------------------------|----|----|----|-----------------------------|----|----|----|----|-----|-----------------------------|----|----|----|----|----|-----------------------------|-----|----|----|----|----|----|-----|-----|-----|
| Soldering    |       | Reflow/Epoxy/<br>Wire Bond* |    |    |    | Reflow/Epoxy/<br>Wire Bond* |    |    |    |    |     | Reflow/Epoxy/<br>Wire Bond* |    |    |    |    |    | Reflow/Epoxy/<br>Wire Bond* |     |    |    |    |    |    |     |     |     |
| Packaging    |       | All Paper                   |    |    |    | All Paper                   |    |    |    |    |     | Paper/Embossed              |    |    |    |    |    | Paper/Embossed              |     |    |    |    |    |    |     |     |     |
| (L) Length   | mm    | 1.00 ± 0.10                 |    |    |    | 1.60 ± 0.15                 |    |    |    |    |     | 2.01 ± 0.20                 |    |    |    |    |    | 3.20 ± 0.20                 |     |    |    |    |    |    |     |     |     |
|              | (in.) | (0.040 ± 0.004)             |    |    |    | (0.063 ± 0.006)             |    |    |    |    |     | (0.079 ± 0.008)             |    |    |    |    |    | (0.126 ± 0.008)             |     |    |    |    |    |    |     |     |     |
| W) Width     | mm    | 0.50 ± 0.10                 |    |    |    | 0.81 ± 0.15                 |    |    |    |    |     | 1.25 ± 0.20                 |    |    |    |    |    | 1.60 ± 0.20                 |     |    |    |    |    |    |     |     |     |
|              | (in.) | (0.020 ± 0.004)             |    |    |    | (0.032 ± 0.006)             |    |    |    |    |     | (0.049 ± 0.008)             |    |    |    |    |    | (0.063 ± 0.008)             |     |    |    |    |    |    |     |     |     |
| (t) Terminal | mm    | 0.25 ± 0.15                 |    |    |    | 0.35 ± 0.15                 |    |    |    |    |     | 0.50 ± 0.25                 |    |    |    |    |    | 0.50 ± 0.25                 |     |    |    |    |    |    |     |     |     |
|              | (in.) | (0.010 ± 0.006)             |    |    |    | (0.014 ± 0.006)             |    |    |    |    |     | (0.020 ± 0.010)             |    |    |    |    |    | (0.020 ± 0.010)             |     |    |    |    |    |    |     |     |     |
| WVDC         |       | 10                          | 16 | 25 | 50 | 63                          | 10 | 16 | 25 | 50 | 100 | 200                         | 63 | 10 | 16 | 25 | 50 | 100                         | 200 | 63 | 10 | 16 | 25 | 50 | 100 | 200 | 500 |
| Cap<br>(pF)  | 100   |                             |    |    |    |                             |    |    |    |    |     |                             |    |    |    |    |    |                             |     |    |    |    |    |    |     |     |     |
|              | 150   |                             |    |    |    |                             |    |    |    |    |     |                             |    |    |    |    |    |                             |     |    |    |    |    |    |     |     |     |
|              | 220   |                             |    |    | C  |                             |    |    | G  |    |     |                             |    |    |    |    |    |                             |     |    |    |    |    |    |     |     |     |
|              | 330   |                             |    |    | C  |                             |    |    |    | G  | G   | G                           |    | J  | J  | J  | J  | J                           | J   |    |    |    |    |    |     |     | K   |
|              | 470   |                             |    |    | C  |                             |    |    |    | G  | G   | G                           |    | J  | J  | J  | J  | J                           | J   |    |    |    |    |    |     |     | K   |
|              | 680   |                             |    |    | C  |                             |    |    |    | G  | G   | G                           |    | J  | J  | J  | J  | J                           | J   |    |    |    |    |    |     |     | K   |
|              | 1000  |                             |    |    | C  |                             |    |    |    | G  | G   | G                           |    | J  | J  | J  | J  | J                           | J   |    |    |    |    |    |     |     | K   |
|              | 1500  |                             |    |    | C  |                             |    |    |    | G  | G   |                             |    | J  | J  | J  | J  | J                           | J   | J  | J  | J  | J  | J  | J   | J   | M   |
|              | 2200  |                             |    |    | C  |                             |    |    |    | G  | G   |                             |    | J  | J  | J  | J  | J                           | J   | J  | J  | J  | J  | J  | J   | J   | M   |
|              | 3300  |                             |    | C  | C  |                             |    |    |    | G  | G   |                             |    | J  | J  | J  | J  | J                           | J   |    | J  | J  | J  | J  | J   | J   | M   |
|              | 4700  |                             |    | C  | C  |                             |    |    |    | G  | G   |                             |    | J  | J  | J  | J  | J                           | J   |    | J  | J  | J  | J  | J   | J   | M   |
|              | 6800  |                             | C  | C  |    |                             |    |    |    | G  | G   |                             |    | J  | J  | J  | J  | J                           | J   |    | J  | J  | J  | J  | J   | J   | P   |
| Cap<br>(µF)  | 0.010 |                             | C  |    |    |                             |    | G  |    | G  | G   |                             |    | J  | J  | J  | J  | J                           | J   |    | J  | J  | J  | J  | J   | J   | P   |
|              | 0.015 |                             | C  |    |    |                             |    |    | G  | G  |     |                             |    | J  | J  | J  | J  | J                           | J   |    | J  | J  | J  | J  | J   | J   |     |
|              | 0.022 | C                           | C  |    |    |                             |    |    | G  | G  |     |                             |    | J  | J  | J  | J  | J                           | N   |    | J  | J  | J  | J  | J   | M   |     |
|              | 0.033 | C                           |    |    |    |                             |    |    | G  | G  |     |                             |    | J  | J  | J  | J  | N                           |     |    | J  | J  | J  | J  | J   | M   |     |
|              | 0.047 |                             |    |    |    |                             |    | G  | G  | G  |     |                             |    | J  | J  | J  | J  | N                           |     |    | J  | J  | J  | J  | J   | M   |     |
|              | 0.068 |                             |    |    |    |                             |    | G  | G  | G  |     |                             |    | J  | J  | J  | J  | N                           |     |    | J  | J  | J  | J  | J   | P   |     |
|              | 0.10  |                             |    |    |    |                             | G  | G  | G  | G  |     |                             |    | J  | J  | J  | J  |                             |     |    | J  | J  | J  | J  | M   | P   |     |
|              | 0.15  |                             |    |    |    | G                           | G  |    |    |    |     |                             |    | J  | J  | J  | N  | N                           |     |    | J  | J  | J  | J  | Q   |     |     |
|              | 0.22  |                             |    |    |    | G                           | G  |    |    |    |     |                             |    | J  | J  | N  | N  | N                           |     |    | J  | J  | J  | J  | Q   |     |     |
|              | 0.33  |                             |    |    |    |                             |    |    |    |    |     |                             |    | N  | N  | N  | N  | N                           |     |    | J  | J  | M  | P  | Q   |     |     |
|              | 0.47  |                             |    |    |    |                             |    |    |    |    |     |                             |    | N  | N  | N  | N  | N                           |     |    | M  | M  | M  | P  | Q   |     |     |
|              | 0.68  |                             |    |    |    |                             |    |    |    |    |     |                             |    | N  | N  | N  |    |                             |     |    | M  | M  | Q  | Q  | Q   |     |     |
|              | 1.0   |                             |    |    |    |                             |    |    |    |    |     |                             |    | N  | N  | N  |    |                             |     |    | M  | M  |    | Q  | Q   |     |     |
|              | 1.5   |                             |    |    |    |                             |    |    |    |    |     |                             |    |    |    |    |    |                             |     |    | P  | Q  | Q  |    |     |     |     |
|              | 2.2   |                             |    |    |    |                             |    |    |    |    |     |                             |    |    |    | P* |    |                             |     |    | Q  | Q  | Q  |    |     |     |     |
|              | 3.3   |                             |    |    |    |                             |    |    |    |    |     |                             |    |    |    |    |    |                             |     |    |    |    |    |    |     |     |     |
|              | 4.7   |                             |    |    |    |                             |    |    |    |    |     |                             |    | P* |    |    |    |                             |     |    | Q  | Q  |    |    |     |     |     |
|              | 10    |                             |    |    |    |                             |    |    |    |    |     |                             |    |    |    |    |    |                             |     |    | Q* |    |    |    |     |     |     |
|              | 22    |                             |    |    |    |                             |    |    |    |    |     |                             |    |    |    |    |    |                             |     |    | Q* |    |    |    |     |     |     |
|              | 47    |                             |    |    |    |                             |    |    |    |    |     |                             |    |    |    |    |    |                             |     |    |    |    |    |    |     |     |     |
|              | 100   |                             |    |    |    |                             |    |    |    |    |     |                             |    |    |    |    |    |                             |     |    |    |    |    |    |     |     |     |
|              | WVDC  | 10                          | 16 | 25 | 50 | 63                          | 10 | 16 | 25 | 50 | 100 | 200                         | 63 | 10 | 16 | 25 | 50 | 100                         | 200 | 63 | 10 | 16 | 25 | 50 | 100 | 200 | 500 |
| SIZE         |       | AU02                        |    |    |    | AU03                        |    |    |    |    |     | AU05                        |    |    |    |    |    | AU06                        |     |    |    |    |    |    |     |     |     |

\* Contact Factory

| Letter         | A               | C               | E               | G               | J               | K               | M               | N               | P               | Q               | X               | Y               | Z               |
|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Max. Thickness | 0.33<br>(0.013) | 0.56<br>(0.022) | 0.71<br>(0.028) | 0.90<br>(0.035) | 0.94<br>(0.037) | 1.02<br>(0.040) | 1.27<br>(0.050) | 1.40<br>(0.055) | 1.52<br>(0.060) | 1.78<br>(0.070) | 2.29<br>(0.090) | 2.54<br>(0.100) | 2.79<br>(0.110) |
| PAPER          |                 |                 |                 |                 |                 | EMBOSSED        |                 |                 |                 |                 |                 |                 |                 |

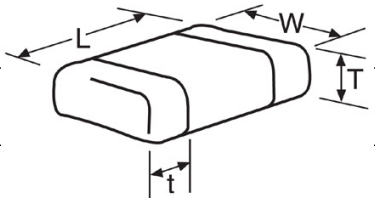


# MLCC Gold Termination – AU Series

Capacitance Range (X7R Dielectric)



PREFERRED SIZES ARE SHADED

| SIZE         | AU10                        |                                |    |    |    |     |     | AU12                        |                                |     |     | AU13                        |                                                                                     | AU14                        |                                |     |
|--------------|-----------------------------|--------------------------------|----|----|----|-----|-----|-----------------------------|--------------------------------|-----|-----|-----------------------------|-------------------------------------------------------------------------------------|-----------------------------|--------------------------------|-----|
| Soldering    | Reflow/Epoxy/<br>Wire Bond* |                                |    |    |    |     |     | Reflow/Epoxy/<br>Wire Bond* |                                |     |     | Reflow/Epoxy/<br>Wire Bond* |                                                                                     | Reflow/Epoxy/<br>Wire Bond* |                                |     |
| Packaging    | Paper/EmbossedU             |                                |    |    |    |     |     | All Embossed                |                                |     |     | All Embossed                |                                                                                     | All Embossed                |                                |     |
| (L) Length   | mm<br>(in.)                 | 3.20 ± 0.20<br>(0.126 ± 0.008) |    |    |    |     |     |                             | 4.50 ± 0.30<br>(0.177 ± 0.012) |     |     |                             | 4.50 ± 0.30<br>(0.177 ± 0.012)                                                      |                             | 5.72 ± 0.25<br>(0.225 ± 0.010) |     |
| (W) Width    | mm<br>(in.)                 | 2.50 ± 0.20<br>(0.098 ± 0.008) |    |    |    |     |     |                             | 3.20 ± 0.20<br>(0.126 ± 0.008) |     |     |                             | 6.40 ± 0.40<br>(0.252 ± 0.016)                                                      |                             | 6.35 ± 0.25<br>(0.250 ± 0.010) |     |
| (t) Terminal | mm<br>(in.)                 | 0.50 ± 0.25<br>(0.020 ± 0.010) |    |    |    |     |     |                             | 0.61 ± 0.36<br>(0.024 ± 0.014) |     |     |                             | 0.61 ± 0.36<br>(0.024 ± 0.014)                                                      |                             | 0.64 ± 0.39<br>(0.025 ± 0.015) |     |
| WVDC         |                             | 10                             | 16 | 25 | 50 | 100 | 200 | 500                         | 50                             | 100 | 200 | 500                         | 50                                                                                  | 100                         | 50                             | 100 |
| Cap<br>(pF)  | 100                         |                                |    |    |    |     |     |                             |                                |     |     |                             |  |                             |                                |     |
|              | 150                         |                                |    |    |    |     |     |                             |                                |     |     |                             |                                                                                     |                             |                                |     |
|              | 220                         |                                |    |    |    |     |     |                             |                                |     |     |                             |                                                                                     |                             |                                |     |
|              | 330                         |                                |    |    |    |     |     |                             |                                |     |     |                             |                                                                                     |                             |                                |     |
|              | 470                         |                                |    |    |    |     |     |                             |                                |     |     |                             |                                                                                     |                             |                                |     |
|              | 680                         |                                |    |    |    |     |     |                             |                                |     |     |                             |                                                                                     |                             |                                |     |
|              | 1000                        |                                |    |    |    |     |     |                             |                                |     |     |                             |                                                                                     |                             |                                |     |
|              | 1500                        | J                              | J  | J  | J  | J   | J   | M                           |                                |     |     |                             |                                                                                     |                             |                                |     |
|              | 2200                        | J                              | J  | J  | J  | J   | J   | M                           |                                |     |     |                             |                                                                                     |                             |                                |     |
|              | 3300                        | J                              | J  | J  | J  | J   | J   | M                           |                                |     |     |                             |                                                                                     |                             |                                |     |
|              | 4700                        | J                              | J  | J  | J  | J   | J   | M                           |                                |     |     |                             |                                                                                     |                             |                                |     |
|              | 6800                        | J                              | J  | J  | J  | J   | J   | M                           |                                |     |     |                             |                                                                                     |                             |                                |     |
| Cap<br>(μF)  | 0.010                       | J                              | J  | J  | J  | J   | J   | M                           | K                              | K   | K   | K                           | M                                                                                   | M                           | M                              | P   |
|              | 0.015                       | J                              | J  | J  | J  | J   | J   | P                           | K                              | K   | K   | P                           | M                                                                                   | M                           | M                              | P   |
|              | 0.022                       | J                              | J  | J  | J  | J   | J   | Q                           | K                              | K   | K   | P                           | M                                                                                   | M                           | M                              | P   |
|              | 0.033                       | J                              | J  | J  | J  | J   | J   | Q                           | K                              | K   | K   | X                           | M                                                                                   | M                           | M                              | P   |
|              | 0.047                       | J                              | J  | J  | J  | J   | J   |                             | K                              | K   | K   | Z                           | M                                                                                   | M                           | M                              | P   |
|              | 0.068                       | J                              | J  | J  | J  | J   | M   |                             | K                              | K   | K   | Z                           | M                                                                                   | M                           | M                              | P   |
|              | 0.10                        | J                              | J  | J  | J  | J   | M   |                             | K                              | K   | K   | K                           | Z                                                                                   | M                           | M                              | P   |
|              | 0.15                        | J                              | J  | J  | J  | M   | Z   |                             | K                              | K   | P   |                             | M                                                                                   | M                           | M                              | P   |
|              | 0.22                        | J                              | J  | J  | J  | P   | Z   |                             | K                              | K   | P   |                             | M                                                                                   | M                           | M                              | P   |
|              | 0.33                        | J                              | J  | J  | J  | Q   |     |                             | K                              | M   | X   |                             | M                                                                                   | M                           | M                              | P   |
|              | 0.47                        | M                              | M  | M  | M  | Q   |     |                             | K                              | P   |     |                             | M                                                                                   | M                           | M                              | P   |
|              | 0.68                        | M                              | M  | P  | X  | X   |     |                             | M                              | Q   |     |                             | M                                                                                   | P                           | M                              | P   |
|              | 1.0                         | N                              | N  |    | X  | Z   |     |                             | M                              | X   |     |                             | M                                                                                   | P                           | M                              | P   |
|              | 1.5                         | N                              | N  | Z  | Z  | Z   |     |                             | Z                              | Z   |     |                             | M                                                                                   |                             | M                              | X   |
|              | 2.2                         | X                              | X  | Z  | Z  | Z   |     |                             | Z                              | Z   |     |                             |                                                                                     |                             | M                              |     |
|              | 3.3                         | X                              | X  | Z  | Z  |     |     |                             | Z                              |     |     |                             |                                                                                     |                             |                                |     |
|              | 4.7                         | X                              | X  | Z  | Z  |     |     |                             | Z                              |     |     |                             |                                                                                     |                             |                                |     |
|              | 10                          | Z                              | Z  | Z  |    |     |     |                             |                                |     |     |                             |                                                                                     |                             |                                |     |
|              | 22                          |                                |    |    |    |     |     |                             |                                |     |     |                             |                                                                                     |                             |                                |     |
|              | 47                          |                                |    |    |    |     |     |                             |                                |     |     |                             |                                                                                     |                             |                                |     |
|              | 100                         |                                |    |    |    |     |     |                             |                                |     |     |                             |                                                                                     |                             |                                |     |
| WVDC         |                             | 10                             | 16 | 25 | 50 | 100 | 200 | 500                         | 50                             | 100 | 200 | 500                         | 50                                                                                  | 100                         | 50                             | 100 |
| SIZE         |                             | AU10                           |    |    |    |     |     |                             | AU12                           |     |     |                             | AU13                                                                                |                             | AU14                           |     |

\* Contact Factory

| Letter         | A               | C               | E               | G               | J               | K               | M               | N               | P               | Q               | X               | Y               | Z               |
|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Max. Thickness | 0.33<br>(0.013) | 0.56<br>(0.022) | 0.71<br>(0.028) | 0.90<br>(0.035) | 0.94<br>(0.037) | 1.02<br>(0.040) | 1.27<br>(0.050) | 1.40<br>(0.055) | 1.52<br>(0.060) | 1.78<br>(0.070) | 2.29<br>(0.090) | 2.54<br>(0.100) | 2.79<br>(0.110) |
|                | PAPER           |                 |                 |                 |                 | EMBOSSSED       |                 |                 |                 |                 |                 |                 |                 |

MLCC Gold Termination – AU Series

Capacitance Range (X5R Dielectric)



PREFERRED SIZES ARE SHADED

| SIZE         | AU02                    |                             |                   |                   |                   | AU03                    |                             |                   |                   |                   | AU05                    |                             |                   |                   |                   | AU06                    |                             |                   |                   |                   | AU10                    |                             |                   |                   |                   | AU12                    |                             |                   |                   |                   |                   |                   |                   |                   |                   |  |  |
|--------------|-------------------------|-----------------------------|-------------------|-------------------|-------------------|-------------------------|-----------------------------|-------------------|-------------------|-------------------|-------------------------|-----------------------------|-------------------|-------------------|-------------------|-------------------------|-----------------------------|-------------------|-------------------|-------------------|-------------------------|-----------------------------|-------------------|-------------------|-------------------|-------------------------|-----------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--|--|
| Soldering    | Reflow/Epoxy Wire Bond* |                             |                   |                   |                   | Reflow/Epoxy Wire Bond* |                             |                   |                   |                   | Reflow/Epoxy Wire Bond* |                             |                   |                   |                   | Reflow/Epoxy Wire Bond* |                             |                   |                   |                   | Reflow/Epoxy Wire Bond* |                             |                   |                   |                   | Reflow/Epoxy Wire Bond* |                             |                   |                   |                   |                   |                   |                   |                   |                   |  |  |
| Packaging    | All Paper               |                             |                   |                   |                   | All Paper               |                             |                   |                   |                   | Paper/Embossed          |                             |                   |                   |                   | Paper/Embossed          |                             |                   |                   |                   | Paper/Embossed          |                             |                   |                   |                   | All Embossed            |                             |                   |                   |                   |                   |                   |                   |                   |                   |  |  |
| (L) Length   | mm (in.)                | 1.00 ± 0.10 (0.040 ± 0.004) |                   |                   |                   |                         | 1.60 ± 0.15 (0.063 ± 0.006) |                   |                   |                   |                         | 2.01 ± 0.20 (0.079 ± 0.008) |                   |                   |                   |                         | 3.20 ± 0.20 (0.126 ± 0.008) |                   |                   |                   |                         | 3.20 ± 0.20 (0.126 ± 0.008) |                   |                   |                   |                         | 4.50 ± 0.30 (0.177 ± 0.012) |                   |                   |                   |                   |                   |                   |                   |                   |  |  |
| (W) Width    | mm (in.)                | 0.50 ± 0.10 (0.020 ± 0.004) |                   |                   |                   |                         | 0.81 ± 0.15 (0.032 ± 0.006) |                   |                   |                   |                         | 1.25 ± 0.20 (0.049 ± 0.008) |                   |                   |                   |                         | 1.60 ± 0.20 (0.063 ± 0.008) |                   |                   |                   |                         | 2.50 ± 0.20 (0.098 ± 0.008) |                   |                   |                   |                         | 3.20 ± 0.20 (0.126 ± 0.008) |                   |                   |                   |                   |                   |                   |                   |                   |  |  |
| (t) Terminal | mm (in.)                | 0.25 ± 0.15 (0.010 ± 0.006) |                   |                   |                   |                         | 0.35 ± 0.15 (0.014 ± 0.006) |                   |                   |                   |                         | 0.50 ± 0.25 (0.020 ± 0.010) |                   |                   |                   |                         | 0.50 ± 0.25 (0.020 ± 0.010) |                   |                   |                   |                         | 0.50 ± 0.25 (0.020 ± 0.010) |                   |                   |                   |                         | 0.61 ± 0.36 (0.024 ± 0.014) |                   |                   |                   |                   |                   |                   |                   |                   |  |  |
| WVDC         | 4 63 10 16 25 50        | 4 63 10 16 25 35 50         | 63 10 16 25 35 50 | 63 10 16 25 35 50 | 63 10 16 25 35 50 | 63 10 16 25 35 50       | 4 63 10 16 25 35 50         | 63 10 16 25 35 50 | 63 10 16 25 35 50 | 63 10 16 25 35 50 | 63 10 16 25 35 50       | 63 10 16 25 35 50           | 63 10 16 25 35 50 | 63 10 16 25 35 50 | 63 10 16 25 35 50 | 63 10 16 25 35 50       | 63 10 16 25 35 50           | 63 10 16 25 35 50 | 63 10 16 25 35 50 | 63 10 16 25 35 50 | 63 10 16 25 35 50       | 63 10 16 25 35 50           | 63 10 16 25 35 50 | 63 10 16 25 35 50 | 63 10 16 25 35 50 | 63 10 16 25 35 50       | 63 10 16 25 35 50           | 63 10 16 25 35 50 | 63 10 16 25 35 50 | 63 10 16 25 35 50 | 63 10 16 25 35 50 | 63 10 16 25 35 50 | 63 10 16 25 35 50 | 63 10 16 25 35 50 | 63 10 16 25 35 50 |  |  |
| Cap (pF)     | 100 150 220             |                             |                   |                   |                   |                         |                             |                   |                   |                   |                         |                             |                   |                   |                   |                         |                             |                   |                   |                   |                         |                             |                   |                   |                   |                         |                             |                   |                   |                   |                   |                   |                   |                   |                   |  |  |
|              | 330 470 680             |                             |                   |                   |                   | C C C                   |                             |                   |                   |                   |                         |                             |                   |                   |                   |                         |                             |                   |                   |                   |                         |                             |                   |                   |                   |                         |                             |                   |                   |                   |                   |                   |                   |                   |                   |  |  |
|              | 1000 1500 2200          |                             |                   |                   |                   | C C C                   |                             |                   |                   |                   |                         |                             |                   |                   |                   |                         |                             |                   |                   |                   |                         |                             |                   |                   |                   |                         |                             |                   |                   |                   |                   |                   |                   |                   |                   |  |  |
|              | 3300 4700 6800          |                             |                   |                   |                   | C C C                   |                             |                   |                   |                   |                         |                             |                   | G G G             |                   |                         |                             |                   |                   |                   |                         |                             |                   |                   |                   |                         |                             |                   |                   |                   |                   |                   |                   |                   |                   |  |  |
| Cap (µF)     | 0.010 0.015 0.022       |                             |                   |                   |                   | C C C                   |                             |                   |                   |                   |                         |                             |                   | G G G             |                   |                         |                             |                   |                   |                   |                         |                             |                   |                   |                   |                         |                             |                   |                   |                   |                   |                   |                   |                   |                   |  |  |
|              | 0.033 0.047 0.068       |                             |                   |                   |                   | C C C                   |                             |                   |                   |                   |                         |                             |                   | G G G             |                   |                         |                             |                   |                   |                   |                         |                             |                   |                   |                   |                         |                             |                   |                   |                   |                   |                   |                   |                   |                   |  |  |
|              | 0.10 0.15 0.22          |                             | C C*              |                   |                   | C C                     |                             |                   |                   |                   |                         |                             |                   | G G               |                   |                         |                             |                   |                   |                   |                         |                             |                   |                   |                   |                         |                             |                   |                   |                   |                   |                   |                   |                   |                   |  |  |
|              | 0.33 0.47 0.68          |                             | C*                |                   |                   |                         |                             |                   |                   |                   |                         |                             |                   | G G               |                   |                         |                             |                   |                   |                   |                         |                             |                   |                   |                   |                         |                             |                   |                   |                   |                   |                   |                   |                   |                   |  |  |
|              | 1.0 1.5 2.2             |                             |                   |                   |                   |                         |                             |                   |                   |                   |                         |                             |                   | G G               |                   |                         |                             |                   |                   |                   |                         |                             |                   |                   |                   |                         |                             |                   |                   |                   |                   |                   |                   |                   |                   |  |  |
|              | 3.3 4.7 10              |                             |                   |                   |                   |                         |                             |                   |                   |                   |                         |                             |                   | J* J* J* J*       |                   |                         |                             |                   |                   |                   |                         |                             |                   |                   |                   |                         |                             |                   |                   |                   |                   |                   |                   |                   |                   |  |  |
|              | 22 47 100               |                             |                   |                   |                   |                         |                             |                   |                   |                   |                         |                             |                   | K*                |                   |                         |                             |                   |                   |                   |                         |                             |                   |                   |                   |                         |                             |                   |                   |                   |                   |                   |                   |                   |                   |  |  |
| WVDC         | 4 63 10 16 25 50        | 4 63 10 16 25 35 50         | 63 10 16 25 35 50 | 63 10 16 25 35 50 | 63 10 16 25 35 50 | 63 10 16 25 35 50       | 4 63 10 16 25 35 50         | 63 10 16 25 35 50 | 63 10 16 25 35 50 | 63 10 16 25 35 50 | 63 10 16 25 35 50       | 63 10 16 25 35 50           | 63 10 16 25 35 50 | 63 10 16 25 35 50 | 63 10 16 25 35 50 | 63 10 16 25 35 50       | 63 10 16 25 35 50           | 63 10 16 25 35 50 | 63 10 16 25 35 50 | 63 10 16 25 35 50 | 63 10 16 25 35 50       | 63 10 16 25 35 50           | 63 10 16 25 35 50 | 63 10 16 25 35 50 | 63 10 16 25 35 50 | 63 10 16 25 35 50       | 63 10 16 25 35 50           | 63 10 16 25 35 50 | 63 10 16 25 35 50 | 63 10 16 25 35 50 | 63 10 16 25 35 50 | 63 10 16 25 35 50 | 63 10 16 25 35 50 | 63 10 16 25 35 50 | 63 10 16 25 35 50 |  |  |
| SIZE         | AU02                    |                             |                   |                   |                   | AU03                    |                             |                   |                   |                   | AU05                    |                             |                   |                   |                   | AU06                    |                             |                   |                   |                   | AU10                    |                             |                   |                   |                   | AU12                    |                             |                   |                   |                   |                   |                   |                   |                   |                   |  |  |

\* Contact Factory

| Letter         | A               | C               | E               | G               | J               | K               | M               | N               | P               | Q               | X               | Y               | Z               |
|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Max. Thickness | 0.33<br>(0.013) | 0.56<br>(0.022) | 0.71<br>(0.028) | 0.90<br>(0.035) | 0.94<br>(0.037) | 1.02<br>(0.040) | 1.27<br>(0.050) | 1.40<br>(0.055) | 1.52<br>(0.060) | 1.78<br>(0.070) | 2.29<br>(0.090) | 2.54<br>(0.100) | 2.79<br>(0.110) |
| PAPER          |                 |                 |                 |                 |                 | EMBOSSSED       |                 |                 |                 |                 |                 |                 |                 |

 = \*Optional Specifications – Contact Factory

NOTE: Contact factory for non-specified capacitance values

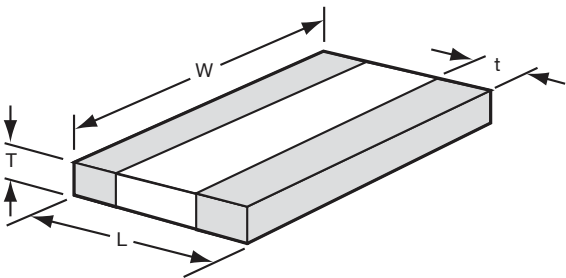
MLCC Gold Termination – AU Series

AU16/AU17/AU18



| SIZE      |            | AU16 (0306)     |     |    |    |    | AU17 (0508)     |    |    |    |    | AU18 (0612)     |    |    |    |    |
|-----------|------------|-----------------|-----|----|----|----|-----------------|----|----|----|----|-----------------|----|----|----|----|
| Packaging |            | Embossed        |     |    |    |    | Embossed        |    |    |    |    | Embossed        |    |    |    |    |
| Length    | mm         | 0.81 ± 0.15     |     |    |    |    | 1.27 ± 0.25     |    |    |    |    | 1.60 ± 0.25     |    |    |    |    |
|           | (in.)      | (0.032 ± 0.006) |     |    |    |    | (0.050 ± 0.010) |    |    |    |    | (0.063 ± 0.010) |    |    |    |    |
| Width     | mm         | 1.60 ± 0.15     |     |    |    |    | 2.00 ± 0.25     |    |    |    |    | 3.20 ± 0.25     |    |    |    |    |
|           | (in.)      | (0.063 ± 0.006) |     |    |    |    | (0.080 ± 0.010) |    |    |    |    | (0.126 ± 0.010) |    |    |    |    |
| Cap Code  | WVDC       | 4               | 6.3 | 10 | 16 | 25 | 6.3             | 10 | 16 | 25 | 50 | 6.3             | 10 | 16 | 25 | 50 |
| 102       | Cap 0.001  | A               | A   | A  | A  | A  | S               | S  | S  | S  | V  | S               | S  | S  | S  | V  |
| 222       | (µF) .0022 | A               | A   | A  | A  | A  | S               | S  | S  | S  | V  | S               | S  | S  | S  | V  |
| 332       | 0.0033     | A               | A   | A  | A  | A  | S               | S  | S  | S  | V  | S               | S  | S  | S  | V  |
| 472       | 0.0047     | A               | A   | A  | A  | A  | S               | S  | S  | S  | V  | S               | S  | S  | S  | V  |
| 682       | 0.0068     | A               | A   | A  | A  | A  | S               | S  | S  | S  | V  | S               | S  | S  | S  | V  |
| 103       | 0.01       | A               | A   | A  | A  | A  | S               | S  | S  | S  | V  | S               | S  | S  | S  | V  |
| 153       | 0.015      | A               | A   | A  | A  | A  | S               | S  | S  | S  | V  | S               | S  | S  | S  | W  |
| 223       | 0.022      | A               | A   | A  | A  | A  | S               | S  | S  | S  | V  | S               | S  | S  | S  | W  |
| 333       | 0.033      | A               | A   | A  | A  | A  | S               | S  | S  | V  | V  | S               | S  | S  | S  | W  |
| 473       | 0.047      | A               | A   | A  | A  | A  | S               | S  | S  | V  | A  | S               | S  | S  | S  | W  |
| 683       | 0.068      | A               | A   | A  | A  | A  | S               | S  | S  | A  | A  | S               | S  | S  | V  | W  |
| 104       | 0.1        | A               | A   | A  | A  | A  | S               | S  | V  | A  | A  | S               | S  | S  | V  | W  |
| 154       | 0.15       | A               | A   | A  | A  | A  | S               | S  | V  | A  | A  | S               | S  | S  | W  | W  |
| 224       | 0.22       | A               | A   | A  | A  | A  | S               | S  | A  | A  | A  | S               | S  | V  | W  |    |
| 334       | 0.33       |                 |     |    |    |    | V               | V  | A  | A  | A  | S               | S  | V  |    |    |
| 474       | 0.47       |                 |     |    |    |    | V               | V  | A  | A  | A  | S               | S  | V  |    |    |
| 684       | 0.68       |                 |     |    |    |    | A               | A  | A  | A  | A  | V               | V  | W  |    |    |
| 105       | 1          | A               |     |    |    |    | A               | A  | A  | A  | A  | V               | V  | A  |    |    |
| 155       | 1.5        |                 |     |    |    |    | A               | A  | A  | A  | A  | W               | W  |    |    |    |
| 225       | 2.2        |                 |     |    |    |    |                 |    |    |    |    | A               | A  |    |    |    |
| 335       | 3.3        |                 |     |    |    |    |                 |    |    |    |    | A               | A  |    |    |    |
| 475       | 4.7        |                 |     |    |    |    |                 |    |    |    |    |                 |    |    |    |    |
| 685       | 6.8        |                 |     |    |    |    |                 |    |    |    |    |                 |    |    |    |    |
| 106       | 10         |                 |     |    |    |    |                 |    |    |    |    |                 |    |    |    |    |

PHYSICAL DIMENSIONS AND PAD LAYOUT



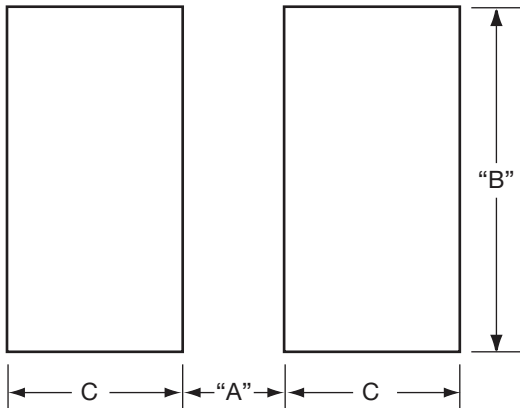
PHYSICAL DIMENSIONS MM (IN.)

|             | L                              | W                              | t                         |
|-------------|--------------------------------|--------------------------------|---------------------------|
| AU16 (0306) | 0.81 ± 0.15<br>(0.032 ± 0.006) | 1.60 ± 0.15<br>(0.063 ± 0.006) | 0.13 min.<br>(0.005 min.) |
| AU17 (0508) | 1.27 ± 0.25<br>(0.050 ± 0.010) | 2.00 ± 0.25<br>(0.080 ± 0.010) | 0.13 min.<br>(0.005 min.) |
| AU18 (0612) | 1.60 ± 0.25<br>(0.063 ± 0.010) | 3.20 ± 0.25<br>(0.126 ± 0.010) | 0.13 min.<br>(0.005 min.) |

T - See Range Chart for Thickness and Codes

PAD LAYOUT DIMENSIONS MM (IN.)

|             | A            | B            | C             |
|-------------|--------------|--------------|---------------|
| AU16 (0306) | 0.31 (0.012) | 1.52 (0.060) | 0.51 (0.020)  |
| AU17 (0508) | 0.51 (0.020) | 2.03 (0.080) | 0.51 (0.020)  |
| AU18 (0612) | 0.76 (0.030) | 3.05 (0.120) | 0.635 (0.025) |



Solid = X7R

= X5R

= X7S

| mm (in.)    |              |
|-------------|--------------|
| AU16 (0306) |              |
| Code        | Thickness    |
| A           | 0.56 (0.022) |

| mm (in.)    |              |
|-------------|--------------|
| AU16 (0508) |              |
| Code        | Thickness    |
| S           | 0.56 (0.022) |
| V           | 0.76 (0.030) |
| A           | 1.02 (0.040) |

| mm (in.)    |              |
|-------------|--------------|
| AU16 (0612) |              |
| Code        | Thickness    |
| S           | 0.56 (0.022) |
| V           | 0.76 (0.030) |
| W           | 1.02 (0.040) |
| A           | 1.27 (0.050) |

# Mouser Electronics

Authorized Distributor

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## AVX:

[AU01YC471KAG2A](#) [AU103C106KA72A](#) [AU026D225MAG2A](#) [AU01ZC103KAG2A](#) [AU016D104KAG2A](#)  
[AU025C391KA72A](#) [AU055C103KA76A](#) [AU016D223KAG2A](#) [AU023C103KA72A](#) [AU023C104KA76A](#)  
[AU02YC103KA72A](#) [AU031A0R5CA72A](#) [AU031A101FA72A](#) [AU031A121KA72A](#) [AU031A270JA72A](#)  
[AU031C103KA72A](#) [AU031C222KA72A](#) [AU033C104KA79A](#) [AU033C224KA76A](#) [AU035A0R5CA72A](#)  
[AU035A270JA72A](#) [AU035C104JA72A](#) [AU035C104KA76A](#) [AU035C222KA72A](#) [AU03ZC224KA76A](#)  
[AU051A150JA72A](#) [AU051C224KA76A](#) [AU053C104KA76A](#) [AU055A150JA72A](#) [AU055C104KA76A](#)  
[AU056D475KA72A](#) [AU05YC474KA72A](#) [AU05YC474MA76A](#) [AU05ZC105KA76A](#) [AU135C155KA76A](#)  
[AU013A101KAG2A](#) [AU013C101KAG2A](#) [AU013D101KAG2A](#) [AU02YC104KA76A](#) [AU02ZC104KA76A](#)  
[AU055C473KA72A](#) [AU063C225MA72A](#) [AU105A472JA72A](#) [AU105C105KA72A](#) [AU03YC105KA72A](#)  
[AU063C475KA72A](#) [AU02YC103KA76A](#) [AU065C184KA76A](#) [AU03YC104KA72A](#) [AU02ZC103KA72A](#)  
[AU031C682KA72A](#) [AU025A7R0JA72A](#) [AU01YC681KA72A](#) [AU053C105KA76A](#) [AU06ZC185KA72A](#)  
[AU03YC104JA72A](#) [AU023A220JA72A](#) [AU065C104JA72A](#) [AU05YC103KA72A](#) [AU023C104KA72A](#)  
[AU051C334KA72A](#) [AU01ZA470JA72A](#) [AU05YC105KA72A](#) [AU01YC471KA72A](#) [AU05YD105MA72A](#)  
[AU031A100JA72A](#) [AU016C103KA72A](#) [AU035C152KA76A](#) [AU01YA101KA72A](#) [AU06YC475KA72A](#)  
[AU035C223KA72A](#) [AU03YC103KA72A](#) [AU03YD105KA72A](#) [AU025A3R0CA72A](#) [AU061A222JA72A](#)  
[AU103A472JA72A](#) [AU065C153KA72A](#) [AU065C104MA76N](#) [AU026D105KA72A](#) [AU02ZD104KA72A](#)  
[AU023C102KA72A](#) [AU035A101JA72A](#) [AU05YC104KA72A](#) [AU025A100JA72A](#) [AU02YC223KA72A](#)  
[AU03YC103KA79A](#) [AU02YC102KA72A](#) [AU016D101MAG2A](#) [AU035C473KA72A](#) [AU103C474KA76A](#)  
[AU06YD105KA72A](#) [AU033C221KA72A](#) [AU02YA3R0CA72A](#) [AU03YD105KA76A](#) [AU03ZC104KA72A](#)  
[AU051A102JA72A](#) [AU051C474KA72A](#) [AU025A560FA79A](#) [AU033A391FA72A](#) [AU035C103MA76N](#)