

### 3. General Use FC, FA, FB



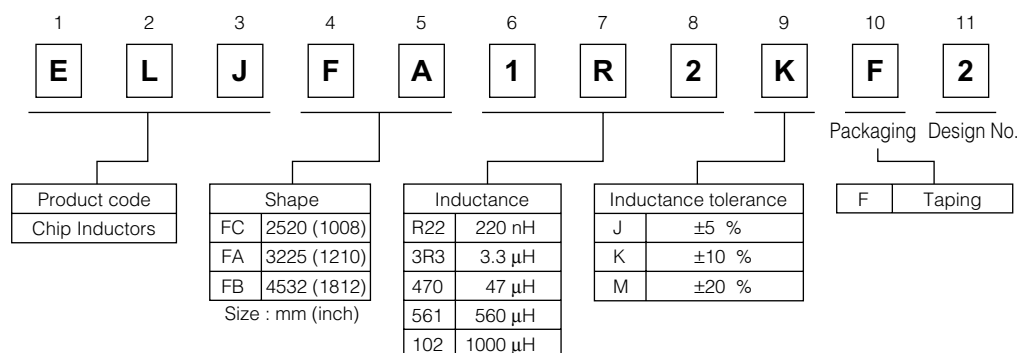
#### ■ Features

- General use wire wound, resin molded chip inductor.
- Capable of being Re-flow or flow soldered.
- Wide line-up from 2520 to 4532 case sizes.
- Good for mounting.
- RoHS compliant

#### ■ Recommended Applications

- AV equipment, Wireless communication equipment and various types of general electronic equipment.

#### ■ Explanation of Part Numbers



#### ■ Storage Conditions

- Package : Normal temperature (−5 to 35 °C), normal humidity (85 %RH max.), shall not be exposed to direct sunlight and harmful gases and care should be taken so as not to cause dew.
- Operating Temperature : −20 to +85 °C

#### ■ Storage Period

- Solderability may be reduced due to the conditions of high temperature and high humidity which causes the oxidation of tin-plated terminals. Even if storage conditions are within specified limits, solderability may be reduced with the passage of time. Therefore, please control the storage conditions and try to use the product within 6 months of receipt.

#### ■ Packaging Methods

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#### ■ Soldering Conditions

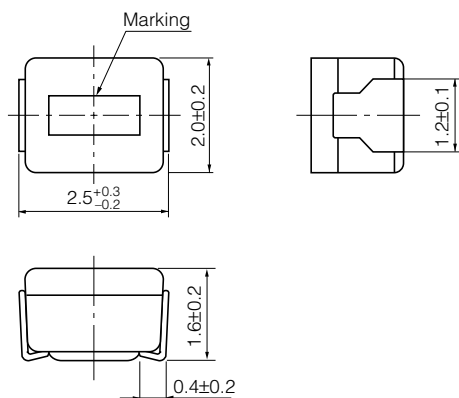
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#### ■ Safety Precautions

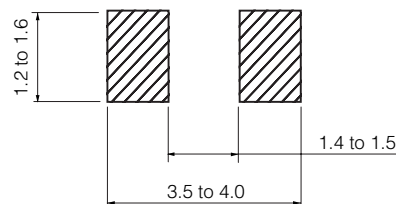
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### ■ FC Type 2520 (1008)

● Dimensions in mm (not to scale)



● Recommended Land Pattern in mm (not to scale)



### ■ Standard Packing Quantity

● 2000 pcs./Reel

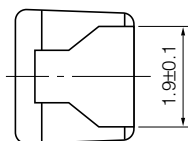
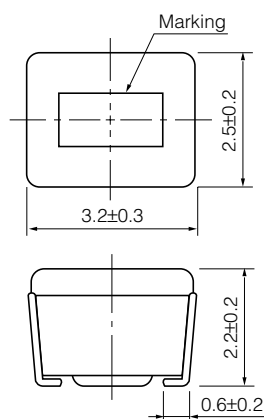
### ■ Standard Parts

| Part No.   | Inductance |                                  |                     | Q     |                     | SRF *1<br>(MHz) min.             | R <sub>DC</sub> *2<br>(Ω) max. | DC Current<br>(mA) max. |
|------------|------------|----------------------------------|---------------------|-------|---------------------|----------------------------------|--------------------------------|-------------------------|
|            | (μH)       | Tolerance<br>(%)                 | Test Freq.<br>(MHz) | min.  | Test Freq.<br>(MHz) |                                  |                                |                         |
| ELJFCR22□F | 0.22       | M : ±20 %<br><br>or<br>K : ±10 % | 25.2                | 25    | 25.2                | 230                              | 0.70                           | 190                     |
| ELJFCR27□F | 0.27       |                                  |                     |       |                     | 210                              | 0.75                           | 180                     |
| ELJFCR33□F | 0.33       |                                  |                     |       |                     | 190                              | 0.85                           | 170                     |
| ELJFCR39□F | 0.39       |                                  |                     |       |                     | 175                              | 0.95                           | 160                     |
| ELJFCR47□F | 0.47       |                                  |                     |       |                     | 160                              | 1.00                           | 155                     |
| ELJFCR56□F | 0.56       |                                  |                     |       |                     | 155                              | 1.10                           | 150                     |
| ELJFCR68□F | 0.68       |                                  |                     |       |                     | 135                              | 1.25                           | 140                     |
| ELJFCR82□F | 0.82       |                                  |                     |       |                     | 125                              | 1.40                           | 130                     |
| ELJFC1R0□F | 1.0        |                                  |                     |       |                     | K : ±10 %<br><br>or<br>J : ± 5 % | 7.96                           | 25                      |
| ELJFC1R2□F | 1.2        | 100                              | 0.75                | 180   |                     |                                  |                                |                         |
| ELJFC1R5□F | 1.5        | 90                               | 0.85                | 170   |                     |                                  |                                |                         |
| ELJFC1R8□F | 1.8        | 85                               | 0.95                | 160   |                     |                                  |                                |                         |
| ELJFC2R2□F | 2.2        | 80                               | 1.05                | 155   |                     |                                  |                                |                         |
| ELJFC2R7□F | 2.7        | 75                               | 1.20                | 145   |                     |                                  |                                |                         |
| ELJFC3R3□F | 3.3        | 65                               | 1.30                | 135   |                     |                                  |                                |                         |
| ELJFC3R9□F | 3.9        | 60                               | 1.40                | 130   |                     |                                  |                                |                         |
| ELJFC4R7□F | 4.7        | 55                               | 1.55                | 125   |                     |                                  |                                |                         |
| ELJFC5R6□F | 5.6        | 50                               | 1.75                | 120   |                     |                                  |                                |                         |
| ELJFC6R8□F | 6.8        | 45                               | 1.95                | 115   |                     |                                  |                                |                         |
| ELJFC8R2□F | 8.2        | 40                               | 2.20                | 105   |                     |                                  |                                |                         |
| ELJFC100□F | 10         | 2.52                             | 2.52                | 32    | 3.70                |                                  | 80                             |                         |
| ELJFC120□F | 12         |                                  |                     | 30    | 4.10                |                                  | 75                             |                         |
| ELJFC150□F | 15         |                                  |                     | 28    | 5.00                |                                  | 70                             |                         |
| ELJFC180□F | 18         |                                  |                     | 25    | 5.40                |                                  | 65                             |                         |
| ELJFC220□F | 22         |                                  |                     | 22    | 6.00                |                                  | 60                             |                         |
| ELJFC270□F | 27         |                                  |                     | 21    | 6.30                |                                  | 115                            |                         |
| ELJFC330□F | 33         |                                  |                     | 20    | 7.10                |                                  | 110                            |                         |
| ELJFC390□F | 39         |                                  |                     | 18    | 9.50                |                                  | 90                             |                         |
| ELJFC470□F | 47         |                                  |                     | 17    | 11.0                |                                  | 80                             |                         |
| ELJFC560□F | 56         |                                  |                     | 16    | 12.1                |                                  | 75                             |                         |
| ELJFC680□F | 68         |                                  |                     | 15    | 16.6                |                                  | 70                             |                         |
| ELJFC820□F | 82         |                                  |                     | 13    | 19.0                |                                  | 65                             |                         |
| ELJFC101□F | 100        |                                  |                     | 0.796 | 15                  |                                  | 0.796                          |                         |

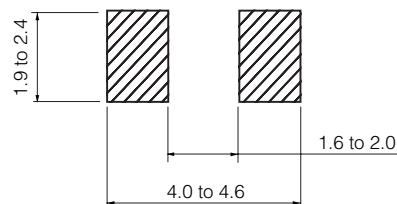
□ : Symbol of Tolerance \*1 : Self Resonant Frequency \*2 : DC Resistance

### ■ FA Type 3225 (1210)

● Dimensions in mm (not to scale)



● Recommended Land Pattern in mm (not to scale)



### ■ Standard Packing Quantity

● 2000 pcs./Reel

### ■ Standard Parts

| Part No.    | Inductance |                                      |                     | Q    |                     | SRF *1<br>(MHz) min. | R <sub>DC</sub> *2<br>(Ω) max. | DC Current<br>(mA) max. |    |
|-------------|------------|--------------------------------------|---------------------|------|---------------------|----------------------|--------------------------------|-------------------------|----|
|             | (μH)       | Tolerance<br>(%)                     | Test Freq.<br>(MHz) | min. | Test Freq.<br>(MHz) |                      |                                |                         |    |
| ELJFAR22□F2 | 0.22       | M : ±20 %<br><br>or<br><br>K : ±10 % | 25.2                | 25   | 25.2                | 230                  | 0.29                           | 360                     |    |
| ELJFAR27□F2 | 0.27       |                                      |                     |      |                     | 210                  | 0.32                           | 345                     |    |
| ELJFAR33□F2 | 0.33       |                                      |                     |      |                     | 190                  | 0.35                           | 330                     |    |
| ELJFAR39□F2 | 0.39       |                                      |                     |      |                     | 175                  | 0.39                           | 305                     |    |
| ELJFAR47□F2 | 0.47       |                                      |                     |      |                     | 160                  | 0.44                           | 290                     |    |
| ELJFAR56□F2 | 0.56       |                                      |                     |      |                     | 150                  | 0.49                           | 275                     |    |
| ELJFAR68□F2 | 0.68       |                                      |                     |      |                     | 135                  | 0.55                           | 260                     |    |
| ELJFAR82□F2 | 0.82       |                                      |                     |      |                     | 125                  | 0.61                           | 245                     |    |
| ELJFA1R0□F2 | 1.0        | K : ±10 %<br><br>or<br><br>J : ± 5 % | 7.96                | 30   | 7.96                | 115                  | 0.69                           | 230                     |    |
| ELJFA1R2□F2 | 1.2        |                                      |                     |      |                     | 100                  | 0.75                           | 215                     |    |
| ELJFA1R5□F  | 1.5        |                                      |                     |      |                     | 90                   | 0.75                           | 210                     |    |
| ELJFA1R8□F  | 1.8        |                                      |                     |      |                     | 85                   | 0.82                           | 200                     |    |
| ELJFA2R2□F  | 2.2        |                                      |                     |      |                     | 80                   | 0.95                           | 190                     |    |
| ELJFA2R7□F  | 2.7        |                                      |                     |      |                     | 75                   | 1.1                            | 180                     |    |
| ELJFA3R3□F  | 3.3        |                                      |                     |      |                     | 65                   | 1.2                            | 180                     |    |
| ELJFA3R9□F  | 3.9        |                                      |                     |      |                     | 60                   | 1.3                            | 175                     |    |
| ELJFA4R7□F  | 4.7        |                                      |                     |      |                     | 55                   | 1.5                            | 165                     |    |
| ELJFA5R6□F  | 5.6        |                                      |                     |      |                     | 50                   | 1.6                            | 160                     |    |
| ELJFA6R8□F  | 6.8        |                                      |                     |      |                     | 45                   | 1.8                            | 150                     |    |
| ELJFA8R2□F  | 8.2        |                                      |                     |      |                     | 40                   | 2.0                            | 140                     |    |
| ELJFA100□F  | 10         |                                      | 2.52                |      | 2.52                | 36                   | 2.1                            | 140                     |    |
| ELJFA120□F  | 12         |                                      |                     |      |                     | 33                   | 2.5                            | 125                     |    |
| ELJFA150□F  | 15         |                                      |                     |      |                     | 30                   | 2.8                            | 120                     |    |
| ELJFA180□F  | 18         |                                      |                     |      |                     | 27                   | 3.3                            | 110                     |    |
| ELJFA220□F  | 22         |                                      |                     |      |                     | 25                   | 3.7                            | 105                     |    |
| ELJFA270□F  | 27         |                                      |                     |      |                     | 22                   | 5.0                            | 90                      |    |
| ELJFA330□F  | 33         |                                      |                     |      |                     | 20                   | 5.6                            | 85                      |    |
| ELJFA390□F  | 39         |                                      |                     |      |                     | 20                   | 6.4                            | 80                      |    |
| ELJFA470□F  | 47         |                                      |                     | 15   |                     | 7.0                  | 75                             |                         |    |
| ELJFA560□F  | 56         |                                      |                     | 15   |                     | 8.0                  | 70                             |                         |    |
| ELJFA680□F  | 68         |                                      |                     | 15   |                     | 9.0                  | 65                             |                         |    |
| ELJFA820□F  | 82         |                                      |                     | 10   |                     | 10.0                 | 60                             |                         |    |
| ELJFA101□F  | 100        |                                      | 0.796               | 20   |                     | 0.796                | 10                             | 10.0                    | 60 |
| ELJFA121□F  | 120        |                                      |                     |      |                     |                      | 10                             | 11.0                    | 55 |
| ELJFA151□F  | 150        |                                      |                     |      |                     |                      | 8                              | 15.0                    | 50 |
| ELJFA181□F  | 180        |                                      |                     |      |                     |                      | 7                              | 17.0                    | 50 |
| ELJFA221□F  | 220        |                                      |                     |      |                     |                      | 7                              | 21.0                    | 45 |

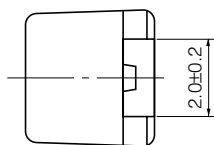
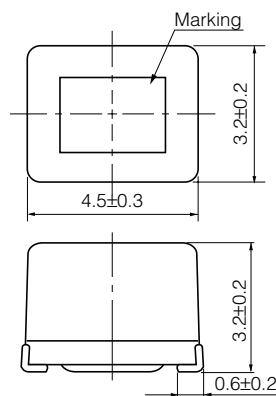
□ : Symbol of Tolerance \*1 : Self Resonant Frequency \*2 : DC Resistance

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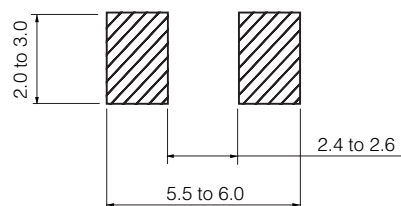
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### ■ FB Type 4532 (1812)

● Dimensions in mm (not to scale)



● Recommended Land Pattern in mm (not to scale)



■ Standard Packing Quantity

● 500 pcs./Reel

### ■ Standard Parts

| Part No.   | Inductance |                              |                     | Q     |                     | SRF *1<br>(MHz) min. | R <sub>DC</sub> *2<br>(Ω) max. | DC Current<br>(mA) max. |      |     |
|------------|------------|------------------------------|---------------------|-------|---------------------|----------------------|--------------------------------|-------------------------|------|-----|
|            | (μH)       | Tolerance<br>(%)             | Test Freq.<br>(MHz) | min.  | Test Freq.<br>(MHz) |                      |                                |                         |      |     |
| ELJFBR22□F | 0.22       | M : ±20 %                    | 1.0                 | 30    | 25.2                | 230                  | 0.30                           | 700                     |      |     |
| ELJFBR27□F | 0.27       |                              |                     |       |                     | 200                  | 0.32                           | 650                     |      |     |
| ELJFBR33□F | 0.33       |                              |                     |       |                     | 180                  | 0.35                           | 630                     |      |     |
| ELJFBR39□F | 0.39       |                              |                     |       |                     | 155                  | 0.37                           | 620                     |      |     |
| ELJFBR47□F | 0.47       |                              |                     |       |                     | 135                  | 0.40                           | 580                     |      |     |
| ELJFBR56□F | 0.56       |                              |                     |       |                     | 120                  | 0.42                           | 560                     |      |     |
| ELJFBR68□F | 0.68       |                              |                     |       |                     | 105                  | 0.48                           | 530                     |      |     |
| ELJFBR82□F | 0.82       |                              |                     |       |                     | 90                   | 0.50                           | 500                     |      |     |
| ELJFB1R0□F | 1.0        | M:±20 %<br>or<br>K : ±10 %   |                     |       |                     | 50                   | 7.96                           | 80                      | 0.52 | 470 |
| ELJFB1R2□F | 1.2        |                              |                     |       |                     |                      |                                | 70                      | 0.55 | 460 |
| ELJFB1R5□F | 1.5        |                              |                     |       |                     |                      |                                | 60                      | 0.61 | 430 |
| ELJFB1R8□F | 1.8        |                              |                     |       |                     |                      |                                | 50                      | 0.61 | 410 |
| ELJFB2R2□F | 2.2        |                              |                     |       |                     |                      |                                | 45                      | 0.61 | 410 |
| ELJFB2R7□F | 2.7        |                              |                     |       |                     |                      |                                | 43                      | 0.61 | 400 |
| ELJFB3R3□F | 3.3        |                              |                     |       |                     |                      |                                | 39                      | 0.66 | 380 |
| ELJFB3R9□F | 3.9        |                              |                     |       |                     |                      |                                | 36                      | 0.74 | 360 |
| ELJFB4R7□F | 4.7        |                              |                     | 33    | 0.81                |                      |                                | 350                     |      |     |
| ELJFB5R6□F | 5.6        |                              |                     | 30    | 0.88                |                      |                                | 330                     |      |     |
| ELJFB6R8□F | 6.8        |                              |                     | 26    | 1.0                 |                      |                                | 310                     |      |     |
| ELJFB8R2□F | 8.2        |                              |                     | 24    | 1.6                 |                      |                                | 250                     |      |     |
| ELJFB100□F | 10         |                              |                     | 22    | 1.8                 |                      |                                | 235                     |      |     |
| ELJFB120□F | 12         |                              |                     | 20    | 1.9                 |                      |                                | 225                     |      |     |
| ELJFB150□F | 15         |                              |                     | 18    | 2.1                 |                      |                                | 215                     |      |     |
| ELJFB180□F | 18         |                              |                     | 16    | 2.3                 |                      |                                | 205                     |      |     |
| ELJFB220□F | 22         | K : ±10 %<br>or<br>J : ± 5 % |                     | 40    | 2.52                | 15                   | 2.6                            | 195                     |      |     |
| ELJFB270□F | 27         |                              |                     |       |                     | 13                   | 2.9                            | 185                     |      |     |
| ELJFB330□F | 33         |                              |                     |       |                     | 12                   | 3.1                            | 175                     |      |     |
| ELJFB390□F | 39         |                              |                     |       |                     | 10                   | 3.6                            | 165                     |      |     |
| ELJFB470□F | 47         |                              |                     |       |                     | 9.7                  | 4.2                            | 130                     |      |     |
| ELJFB560□F | 56         |                              |                     |       |                     | 9.0                  | 4.7                            | 125                     |      |     |
| ELJFB680□F | 68         |                              |                     |       |                     | 8.2                  | 5.3                            | 115                     |      |     |
| ELJFB820□F | 82         |                              |                     |       |                     | 7.5                  | 5.9                            | 110                     |      |     |
| ELJFB101□F | 100        |                              |                     |       | 6.7                 | 8.8                  | 105                            |                         |      |     |
| ELJFB121□F | 120        |                              |                     |       | 0.796               | 1.5                  | 6.1                            | 10                      | 100  |     |
| ELJFB151□F | 150        |                              |                     |       |                     |                      | 5.5                            | 11                      | 95   |     |
| ELJFB181□F | 180        |                              |                     |       |                     |                      | 5.1                            | 13                      | 85   |     |
| ELJFB221□F | 220        |                              |                     |       |                     |                      | 4.5                            | 13                      | 85   |     |
| ELJFB271□F | 270        |                              |                     |       |                     |                      | 4.1                            | 14                      | 80   |     |
| ELJFB331□F | 330        |                              |                     |       |                     |                      | 3.7                            | 16                      | 75   |     |
| ELJFB391□F | 390        |                              |                     |       |                     |                      | 3.3                            | 19                      | 70   |     |
| ELJFB471□F | 470        | 3.3                          |                     | 31    |                     |                      | 55                             |                         |      |     |
| ELJFB561□F | 560        | 30                           |                     | 0.796 | 2.7                 | 35                   | 50                             |                         |      |     |
| ELJFB681□F | 680        |                              |                     |       | 2.5                 | 39                   | 50                             |                         |      |     |
| ELJFB821□F | 820        |                              |                     |       | 2.4                 | 45                   | 45                             |                         |      |     |
| ELJFB102□F | 1000       |                              |                     |       | 2.1                 | 53                   | 40                             |                         |      |     |

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