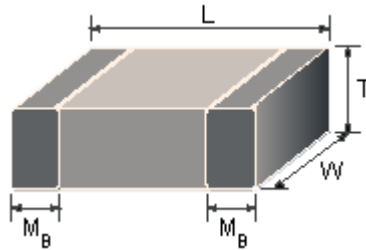


## High Voltage Capacitors



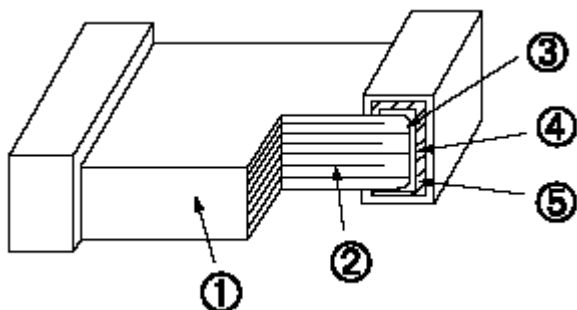
### Dimensions Table

| Size<br>Inch (mm) | L<br>(mm)            | W<br>(mm)         | T<br>(mm) / Symbol |   | Remark | M <sub>B</sub><br>(mm) |
|-------------------|----------------------|-------------------|--------------------|---|--------|------------------------|
| 0603 (1608)       | 1.6 ±0.1             | 0.8 ±0.1          | 0.8 ±0.07          | S |        | 0.4 ±0.15              |
|                   | 1.66<br>+0.15 / -0.1 | 0.8 + 0.15 / -0.1 | 0.8 + 0.15 / -0.1  | X |        |                        |
| 0805 (2012)       | 2 ±0.15              | 1.25 ±0.1         | 0.5 ±0.1           | H |        | 0.5 ±0.2               |
|                   |                      |                   | 0.6 ±0.1           | A |        |                        |
|                   |                      |                   | 0.8 ±0.1           | B |        |                        |
|                   |                      |                   | 1.25 ±0.1          | D | #      |                        |
|                   | 2 ±0.2               | 1.25 ±0.2         | 0.85 ±0.1          | T |        |                        |
|                   |                      |                   | 1.25 ±0.2          | I | #      |                        |
| 1206 (3216)       | 3.2 ±0.15            | 1.6 ±0.15         | 0.8 ±0.1           | B | #      | 0.6 ±0.2               |
|                   |                      |                   | 0.95 ±0.1          | C |        |                        |
|                   |                      |                   | 1.25 ±0.1          | D |        |                        |
|                   |                      |                   | 1.15 ±0.15         | J |        |                        |
|                   | 3.2 ±0.2             | 1.6 ±0.2          | 1.6 ±0.2           | G |        |                        |
|                   |                      |                   | 0.85 ±0.1          | T |        |                        |
|                   | 3.2 + 0.3 / -0.1     | 1.6 + 0.3 / -0.1  | 1.6 + 0.3 / -0.1   | P |        |                        |
| 1210 (3225)       | 3.2 ±0.3             | 2.5 ±0.2          | 0.95 ±0.1          | C | #      | 0.75 ±0.25             |
|                   |                      |                   | 0.85 ±0.1          | T |        |                        |
|                   |                      |                   | 1.25 ±0.1          | D |        |                        |
|                   |                      |                   | 1.6 ±0.2           | G |        |                        |
|                   | 3.2 ±0.4             | 2.5 ±0.3          | 2 ±0.2             | K |        |                        |
|                   |                      |                   | 2.5 ±0.3           | M |        |                        |
| 1812 (4532)       | 4.5 ±0.4             | 3.2 ±0.3          | 1.25 ±0.1          | D | #      | 0.75 ±0.25             |
|                   |                      |                   | 2 ±0.2             | K |        |                        |
|                   |                      | 3.2 ±0.4          | 2.5 ±0.3           | M |        |                        |
|                   |                      |                   | 2.8 ±0.3           | U |        |                        |

# Reflow soldering only is recommended

\* For safety certificated products and soft termination product please refer to individual sheet for detail

## Constructions



The construction of MLCC

| Number | Name             | NPO / X7R / X7E          | NPO / X7R / X5R / Y5V |
|--------|------------------|--------------------------|-----------------------|
| 1      | Ceramic material | BaTiO <sub>3</sub> based |                       |
| 2      | Inner electrode  | AgPd alloy               | Ni                    |
| 3      | Termination      | Inner layer              | Ag                    |
| 4      |                  | Middle layer             | Ni                    |
| 5      |                  | Outer layer              | Sn (Matt)             |

## Storage and handling conditions

- (1) To store products at 5 to 40°C ambient temperature and 20 to 70% related humidity conditions
- (2) The product is recommended to be used within 6 months after shipment. Check solderability in case of shelf life extension is needed

## Cautions:

- Don't store products in a corrosive environment such as sulphide, chloride gas, or acid. It may cause oxidization of electrode, which easily be resulted in poor soldering.
- To store products on the shelf and avoid exposure to moisture.
- Don't expose products to excessive shock, vibration, direct sunlight and so on.

## Capacitance Range (NP0 Dielectric 200 V to 3,000 V):

| Dielectric           |                | NP0  |      |     |      |     |       |       |       |       |       |       |
|----------------------|----------------|------|------|-----|------|-----|-------|-------|-------|-------|-------|-------|
| Size                 |                | 0630 | 0805 |     | 1206 |     |       |       | 1210  |       | 1812  |       |
| Rated Voltage (V dc) |                | 200  | 200  | 500 | 200  | 630 | 1,000 | 2,000 | 1,000 | 2,000 | 1,000 | 3,000 |
| Capacitance          | 1 pF (1R0)     | S    | A    | A   | A    | B   |       |       |       |       |       |       |
|                      | 1.5 pF (1R5)   | S    | A    | A   | A    | B   | B     | B     |       |       |       |       |
|                      | 2.2 pF (2R2)   | S    | A    | A   | A    | B   | B     | B     |       |       |       |       |
|                      | 3.3 pF (3R3)   | S    | A    | A   | A    | B   | B     | B     |       |       |       |       |
|                      | 4.7 pF (4R7)   | S    | A    | A   | A    | B   | B     | B     |       |       |       |       |
|                      | 6.8 pF (6R8)   | S    | A    | A   | A    | B   | B     | B     |       |       |       |       |
|                      | 10 pF (100)    | S    | A    | A   | A    | B   | B     | B     | C     | C     |       | D     |
|                      | 15 pF (150)    | S    | A    | A   | A    | B   | B     | B     | C     | C     | D     | D     |
|                      | 22 pF (220)    | S    | A    | A   | A    | B   | B     | B     | C     | C     | D     | D     |
|                      | 33 pF (330)    | S    | A    | A   | A    | B   | B     | C     | C     | C     | D     | D     |
|                      | 47 pF (470)    | S    | A    | A   | A    | B   | C     | C     | C     | C     | D     | D     |
|                      | 68 pF (680)    | S    | A    | A   | A    | B   | C     | D     | C     | D     | D     | D     |
|                      | 100 pF (101)   | S    | A    | B   | A    | B   | D     | D     | D     | D     | D     | D     |
|                      | 150 pF (151)   | S    | B    | D   | A    | B   | D     | G     | D     | G     | D     | D     |
|                      | 220 pF (221)   | S    | D    | D   | A    | B   | G     | G     | G     | G     | D     | K     |
|                      | 330 pF (331)   |      | D    | D   | A    | C   | G     |       | G     |       | D     | K     |
|                      | 470 pF (471)   |      |      |     | C    | C   | G     |       | G     |       | K     | K     |
|                      | 680 pF (681)   |      |      |     | C    | D   |       |       |       |       | K     |       |
|                      | 1,500 pF (152) |      |      |     | D    |     |       |       |       |       | K     |       |
|                      | 2,200 pF (222) |      |      |     | D    |     |       |       |       |       |       |       |
|                      | 1,000 pF (102) |      |      |     |      | G   |       |       |       |       | K     |       |

1. The letter in cell is expressed the symbol of product thickness
2. The letter in cell with "A" mark is expressed product with Ag / Ni / Sn terminations

## Change Range (X7R Dielectric 200 V to 3,000 V):

| Dielectric           |                     | X7R  |      |     |       |       |      |     |       |      |       |       |
|----------------------|---------------------|------|------|-----|-------|-------|------|-----|-------|------|-------|-------|
| Size                 |                     | 0805 | 1206 |     |       |       | 1210 |     |       | 1812 |       |       |
| Rated Voltage (V dc) |                     | 200  | 200  | 630 | 1,000 | 2,000 | 200  | 630 | 1,000 | 630  | 1,000 | 3,000 |
| Capacitance          | 100 pF (101)        | B    |      |     |       |       |      |     |       |      |       |       |
|                      | 150 pF (151)        | B    | D    | D   | D     | D     |      |     |       |      |       |       |
|                      | 0.015 $\mu$ F (153) | D    | D    | D   |       |       | C    | D   |       | D    | K     |       |
|                      | 0.022 $\mu$ F (223) | D    | D    | G   |       |       | C    | D   |       | D    |       |       |
|                      | 220 pF (221)        |      | D    | D   | D     | D     |      |     |       |      |       |       |
|                      | 330 pF (331)        |      | D    | D   | D     | D     |      |     |       |      | D     |       |
|                      | 470 pF (471)        |      | D    | D   | D     | D     |      |     |       |      | D     |       |
|                      | 680 pF (681)        |      | D    | D   | D     | D     |      |     |       |      | D     | K     |
|                      | 1,000 pF (102)      |      | D    |     | D     | G     | C    | D   | D     | D    | D     | K     |
|                      | 1,500 pF (152)      |      | D    | D   | D     |       | C    | D   | D     | D    | D     |       |
|                      | 2,200 pF (222)      |      | D    |     | D     |       | C    | D   | D     | D    | D     |       |
|                      | 3,300 pF (332)      |      | D    | D   | D     |       | C    | D   | D     | D    | D     |       |
|                      | 4,700 pF (472)      |      | D    |     | D     |       | C    | D   | G     | D    | D     |       |
|                      | 6,800 pF (682)      |      | D    | D   | D     |       | C    | D   | G     | D    | D     |       |
|                      | 0.010 $\mu$ F (103) |      | D    |     | D     |       | C    | D   | G     | D    | D     |       |
|                      | 0.033 $\mu$ F (333) |      | G    | G   |       |       | C    | G   |       | D    |       |       |
|                      | 0.047 $\mu$ F (473) |      | G    |     |       |       | D    | G   |       | D    |       |       |
|                      | 0.068 $\mu$ F (683) |      | G    |     |       |       | G    |     |       | K    |       |       |
|                      | 0.10 $\mu$ F (104)  |      | G    |     |       |       | G    |     |       | K    |       |       |
|                      | 0.15 $\mu$ F (154)  |      |      |     |       |       | M    |     |       |      |       |       |
|                      | 0.22 $\mu$ F (224)  |      |      |     |       |       | M    |     |       |      |       |       |
|                      | 0.33 $\mu$ F (334)  |      |      |     |       |       | M    |     |       |      |       |       |
|                      | 0.47 $\mu$ F (474)  |      |      |     |       |       | M    |     |       |      |       |       |

1. The letter in cell is expressed the symbol of product thickness
2. The letter in cell with "A" mark is expressed product with Ag / Ni / Sn terminations

**Part Number Table**

| Description                         | Size Inch (mm) | Dielectric | Capacitance | Tolerance  | Rated Voltage (VDC) | Termination  | Part Number |          |
|-------------------------------------|----------------|------------|-------------|------------|---------------------|--------------|-------------|----------|
| Capacitor, 0603, NP0, 200 V, 1 pF   | 0603 (1608)    | NP0 (COG)  | 1 pF        | ±0.25 pF   | 200 V               | Cu / Ni / Sn | MCCA000634  |          |
| Capacitor, 0603, NP0, 200 V, 1.5 pF |                |            | 1.5 pF      |            |                     |              | MCCA000635  |          |
| Capacitor, 0603, NP0, 200 V, 2.2 pF |                |            | 2.2 pF      |            |                     |              | MCCA000636  |          |
| Capacitor, 0603, NP0, 200 V, 3.3 pF |                |            | 3.3 pF      |            |                     |              | MCCA000637  |          |
| Capacitor, 0603, NP0, 200 V, 4.7 pF |                |            | 4.7 pF      |            |                     |              | MCCA000638  |          |
| Capacitor, 0603, NP0, 200 V, 6.8 pF |                |            | 6.8 pF      |            |                     |              | MCCA000639  |          |
| Capacitor, 0603, NP0, 200 V, 10 pF  |                |            | 10 pF       | ±5%        |                     |              | MCCA000640  |          |
| Capacitor, 0603, NP0, 200 V, 15 pF  |                |            | 15 pF       |            |                     |              | MCCA000641  |          |
| Capacitor, 0603, NP0, 200 V, 22 pF  |                |            | 22 pF       |            |                     |              | MCCA000642  |          |
| Capacitor, 0603, NP0, 200 V, 33 pF  |                |            | 33 pF       |            |                     |              | MCCA000643  |          |
| Capacitor, 0603, NP0, 200 V, 47 pF  |                |            | 47 pF       |            |                     |              | MCCA000644  |          |
| Capacitor, 0603, NP0, 200 V, 68 pF  |                |            | 68 pF       |            |                     |              | MCCA000645  |          |
| Capacitor, 0603, NP0, 200 V, 100 pF |                |            | 100 pF      |            |                     |              | MCCA000646  |          |
| Capacitor, 0603, NP0, 200 V, 150 pF |                |            | 150 pF      |            |                     |              | MCCA000647  |          |
| Capacitor, 0603, NP0, 200 V, 220 pF |                |            | 220 pF      |            |                     |              | MCCA000648  |          |
| Capacitor, 0805, NP0, 200 V, 1 pF   |                |            | 0805 (2012) |            |                     |              | 1 pF        | ±0.25 pF |
| Capacitor, 0805, NP0, 200 V, 1.5 pF | 1.5 pF         |            |             | MCCA000650 |                     |              |             |          |
| Capacitor, 0805, NP0, 200 V, 2.2 pF | 2.2 pF         |            |             | MCCA000651 |                     |              |             |          |
| Capacitor, 0805, NP0, 200 V, 3.3 pF | 3.3 pF         |            |             | MCCA000652 |                     |              |             |          |
| Capacitor, 0805, NP0, 200 V, 4.7 pF | 4.7 pF         |            |             | MCCA000653 |                     |              |             |          |
| Capacitor, 0805, NP0, 200 V, 6.8 pF | 6.8 pF         |            |             | MCCA000654 |                     |              |             |          |
| Capacitor, 0805, NP0, 200 V, 10 pF  | 10 pF          |            |             | ±5%        |                     |              | MCCA000655  |          |
| Capacitor, 0805, NP0, 500 V, 1 pF   | 1 pF           |            |             | ±0.25 pF   | MCCA000656          |              |             |          |
| Capacitor, 0805, NP0, 500 V, 1.5 pF | 1.5 pF         |            |             |            | MCCA000657          |              |             |          |
| Capacitor, 0805, NP0, 500 V, 2.2 pF | 2.2 pF         |            |             |            | MCCA000658          |              |             |          |
| Capacitor, 0805, NP0, 500 V, 3.3 pF | 3.3 pF         |            |             |            | MCCA000659          |              |             |          |
| Capacitor, 0805, NP0, 500 V, 4.7 pF | 4.7 pF         |            |             |            | MCCA000660          |              |             |          |
| Capacitor, 0805, NP0, 500 V, 6.8 pF | 6.8 pF         |            |             |            | MCCA000661          |              |             |          |
| Capacitor, 0805, NP0, 500 V, 10 pF  | 10 pF          |            |             | ±5%        | MCCA000662          |              |             |          |
| Capacitor, 0805, NP0, 500 V, 15 pF  | 15 pF          |            |             |            | MCCA000663          |              |             |          |
| Capacitor, 0805, NP0, 500 V, 22 pF  | 22 pF          |            |             |            | MCCA000664          |              |             |          |
| Capacitor, 0805, NP0, 500 V, 33 pF  | 33 pF          |            | MCCA000665  |            |                     |              |             |          |

## Part Number Table

| Description                         | Size Inch (mm) | Dielectric | Capacitance | Tolerance | Rated Voltage (VDC) | Termination  | Part Number |
|-------------------------------------|----------------|------------|-------------|-----------|---------------------|--------------|-------------|
| Capacitor, 0805, NP0, 500 V, 47 pF  | 0805 (2012)    | NP0 (C0G)  | 47 pF       | ±5%       | 500 V               | Cu / Ni / Sn | MCCA000666  |
| Capacitor, 0805, NP0, 500 V, 68 pF  |                |            | 68 pF       |           |                     |              | MCCA000667  |
| Capacitor, 0805, NP0, 500 V, 100 pF |                |            | 100 pF      |           |                     |              | MCCA000668  |
| Capacitor, 0805, NP0, 500 V, 150 pF |                |            | 150 pF      |           |                     |              | MCCA000669  |
| Capacitor, 0805, NP0, 500 V, 220 pF |                |            | 220 pF      |           |                     |              | MCCA000670  |
| Capacitor, 0805, NP0, 500 V, 330 pF |                |            | 330 pF      |           |                     |              | MCCA000671  |
| Capacitor, 0805, X7R, 200 V, 100 pF |                | X7R        | 100 pF      | ±10%      | 200 V               |              | MCCA000672  |
| Capacitor, 0805, X7R, 200 V, 150 pF |                |            | 150 pF      |           |                     |              | MCCA000673  |
| Capacitor, 0805, X7R, 200 V, 15 nF  |                |            | 15 nF       |           |                     |              | MCCA000674  |
| Capacitor, 0805, X7R, 200 V, 22 nF  |                |            | 22 nF       |           |                     |              | MCCA000675  |
| Capacitor, 1206, NP0, 200 V, 1.5 pF | 1206 (3216)    | NP0 (C0G)  | 1.5 pF      | ±0.25 pF  |                     |              | MCCA000676  |
| Capacitor, 1206, NP0, 200 V, 2.2 pF |                |            | 2.2 pF      |           |                     |              | MCCA000677  |
| Capacitor, 1206, NP0, 200 V, 3.3 pF |                |            | 3.3 pF      |           |                     |              | MCCA000678  |
| Capacitor, 1206, NP0, 200 V, 4.7 pF |                |            | 4.7 pF      |           |                     |              | MCCA000679  |
| Capacitor, 1206, NP0, 200 V, 6.8 pF |                |            | 6.8 pF      |           |                     |              | MCCA000680  |
| Capacitor, 1206, NP0, 200 V, 10 pF  |                |            | 10 pF       | ±5%       |                     |              | MCCA000681  |
| Capacitor, 1206, NP0, 200 V, 15 pF  |                |            | 15 pF       |           |                     |              | MCCA000682  |
| Capacitor, 1206, NP0, 200 V, 22 pF  |                |            | 22 pF       |           |                     |              | MCCA000683  |
| Capacitor, 1206, NP0, 200 V, 33 pF  |                |            | 33 pF       |           |                     |              | MCCA000684  |
| Capacitor, 1206, NP0, 200 V, 47 pF  |                |            | 47 pF       |           |                     |              | MCCA000685  |
| Capacitor, 1206, NP0, 200 V, 68 pF  |                |            | 68 pF       |           |                     |              | MCCA000686  |
| Capacitor, 1206, NP0, 200 V, 100 pF |                |            | 100 pF      |           |                     |              | MCCA000687  |
| Capacitor, 1206, NP0, 200 V, 150 pF |                |            | 150 pF      |           |                     |              | MCCA000688  |
| Capacitor, 1206, NP0, 200 V, 220 pF |                |            | 220 pF      |           |                     |              | MCCA000689  |
| Capacitor, 1206, NP0, 200 V, 330 pF |                |            | 330 pF      |           |                     |              | MCCA000690  |
| Capacitor, 1206, NP0, 200 V, 470 pF |                |            | 470 pF      |           |                     |              | MCCA000691  |
| Capacitor, 1206, NP0, 200 V, 680 pF |                |            | 680 pF      |           |                     |              | MCCA000692  |
| Capacitor, 1206, NP0, 200 V, 1.5 nF |                |            | 1.5 nF      |           |                     |              | MCCA000693  |
| Capacitor, 1206, NP0, 200 V, 2.2 nF |                |            | 2.2 nF      |           |                     |              | MCCA000694  |
| Capacitor, 1206, NP0, 630 V, 1.5 pF |                |            | 1.5 pF      | ±0.25 pF  | 630 V               |              | MCCA000695  |
| Capacitor, 1206, NP0, 630 V, 2.2 pF |                |            | 2.2 pF      |           |                     |              | MCCA000696  |
| Capacitor, 1206, NP0, 630 V, 3.3 pF |                |            | 3.3 pF      |           |                     |              | MCCA000697  |

## Part Number Table

| Description                           | Size Inch<br>(mm) | Dielectric   | Capacitance | Tolerance  | Rated<br>Voltage<br>(VDC) | Termination  | Part Number |
|---------------------------------------|-------------------|--------------|-------------|------------|---------------------------|--------------|-------------|
| Capacitor, 1206, NP0, 630 V, 4.7 pF   | 1206<br>(3216)    | NP0<br>(C0G) | 4.7 pF      | ±0.25 pF   | 630 V                     | Cu / Ni / Sn | MCCA000698  |
| Capacitor, 1206, NP0, 630 V, 6.8 pF   |                   |              | 6.8 pF      |            |                           |              | MCCA000699  |
| Capacitor, 1206, NP0, 630 V, 10 pF    |                   |              | 10 pF       | MCCA000700 |                           |              |             |
| Capacitor, 1206, NP0, 630 V, 15 pF    |                   |              | 15 pF       | MCCA000701 |                           |              |             |
| Capacitor, 1206, NP0, 630 V, 22 pF    |                   |              | 22 pF       | MCCA000702 |                           |              |             |
| Capacitor, 1206, NP0, 630 V, 33 pF    |                   |              | 33 pF       | MCCA000703 |                           |              |             |
| Capacitor, 1206, NP0, 630 V, 47 pF    |                   |              | 47 pF       | MCCA000704 |                           |              |             |
| Capacitor, 1206, NP0, 630 V, 68 pF    |                   |              | 68 pF       | MCCA000705 |                           |              |             |
| Capacitor, 1206, NP0, 630 V, 150 pF   |                   |              | 150 pF      | MCCA000706 |                           |              |             |
| Capacitor, 1206, NP0, 630 V, 220 pF   |                   |              | 220 pF      | MCCA000707 |                           |              |             |
| Capacitor, 1206, NP0, 630 V, 330 pF   |                   |              | 330 pF      | MCCA000708 |                           |              |             |
| Capacitor, 1206, NP0, 630 V, 470 pF   |                   |              | 470 pF      | MCCA000709 |                           |              |             |
| Capacitor, 1206, NP0, 630 V, 680 pF   |                   |              | 680 pF      | MCCA000710 |                           |              |             |
| Capacitor, 1206, NP0, 630 V, 1 nF     |                   |              | 1 nF        | MCCA000711 |                           |              |             |
| Capacitor, 1206, NP0, 1,000 V, 1.5 pF |                   |              | 1.5 pF      | ±0.25 pF   | 1,000 V                   |              | MCCA000712  |
| Capacitor, 1206, NP0, 1,000 V, 2.2 pF |                   |              | 2.2 pF      |            |                           |              | MCCA000713  |
| Capacitor, 1206, NP0, 1,000 V, 3.3 pF |                   |              | 3.3 pF      |            |                           |              | MCCA000714  |
| Capacitor, 1206, NP0, 1,000 V, 4.7 pF |                   |              | 4.7 pF      |            |                           |              | MCCA000715  |
| Capacitor, 1206, NP0, 1,000 V, 6.8 pF |                   |              | 6.8 pF      | MCCA000716 |                           |              |             |
| Capacitor, 1206, NP0, 1,000 V, 10 pF  |                   |              | 10 pF       | MCCA000717 |                           |              |             |
| Capacitor, 1206, NP0, 1,000 V, 15 pF  |                   |              | 15 pF       | MCCA000718 |                           |              |             |
| Capacitor, 1206, NP0, 1,000 V, 22 pF  |                   |              | 22 pF       | MCCA000719 |                           |              |             |
| Capacitor, 1206, NP0, 1,000 V, 33 pF  |                   |              | 33 pF       | MCCA000720 |                           |              |             |
| Capacitor, 1206, NP0, 1,000 V, 47 pF  |                   |              | 47 pF       | MCCA000721 |                           |              |             |
| Capacitor, 1206, NP0, 1,000 V, 68 pF  |                   |              | 68 pF       | MCCA000722 |                           |              |             |
| Capacitor, 1206, NP0, 1,000 V, 100 pF |                   |              | 100 pF      | MCCA000723 |                           |              |             |
| Capacitor, 1206, NP0, 1,000 V, 150 pF |                   |              | 150 pF      | MCCA000724 |                           |              |             |
| Capacitor, 1206, NP0, 1,000 V, 220 pF |                   |              | 220 pF      | MCCA000725 |                           |              |             |
| Capacitor, 1206, NP0, 1,000 V, 330 pF |                   |              | 330 pF      | MCCA000726 |                           |              |             |
| Capacitor, 1206, NP0, 1,000 V, 470 pF |                   |              | 470 pF      | MCCA000727 |                           |              |             |
| Capacitor, 1206, NP0, 2,000 V, 1.5 pF |                   |              | 1.5 pF      | ±0.25 pF   | 2,000 V                   |              | MCCA000728  |
| Capacitor, 1206, NP0, 2,000 V, 2.2 pF |                   |              | 2.2 pF      |            |                           |              | MCCA000729  |

## Part Number Table

| Description                           | Size Inch<br>(mm) | Dielectric   | Capacitance | Tolerance | Rated<br>Voltage<br>(VDC) | Termination  | Part Number |
|---------------------------------------|-------------------|--------------|-------------|-----------|---------------------------|--------------|-------------|
| Capacitor, 1206, NP0, 2,000 V, 3.3 pF | 1206<br>(3216)    | NP0<br>(C0G) | 3.3 pF      | ±0.25 pF  | 2,000 V                   | Cu / Ni / Sn | MCCA000730  |
| Capacitor, 1206, NP0, 2,000 V, 4.7 pF |                   |              | 4.7 pF      |           |                           |              | MCCA000731  |
| Capacitor, 1206, NP0, 2,000 V, 6.8 pF |                   |              | 6.8 pF      |           |                           |              | MCCA000732  |
| Capacitor, 1206, NP0, 2,000 V, 10 pF  |                   |              | 10 pF       | ±5%       |                           |              | MCCA000733  |
| Capacitor, 1206, NP0, 2,000 V, 15 pF  |                   |              | 15 pF       |           |                           |              | MCCA000734  |
| Capacitor, 1206, NP0, 2,000 V, 22 pF  |                   |              | 22 pF       |           |                           |              | MCCA000735  |
| Capacitor, 1206, NP0, 2,000 V, 33 pF  |                   |              | 33 pF       |           |                           |              | MCCA000736  |
| Capacitor, 1206, NP0, 2,000 V, 47 pF  |                   |              | 47 pF       |           |                           |              | MCCA000737  |
| Capacitor, 1206, NP0, 2,000 V, 68 pF  |                   |              | 68 pF       |           |                           |              | MCCA000738  |
| Capacitor, 1206, NP0, 2,000 V, 100 pF |                   |              | 100 pF      |           |                           |              | MCCA000739  |
| Capacitor, 1206, NP0, 2,000 V, 150 pF |                   |              | 150 pF      |           |                           |              | MCCA000740  |
| Capacitor, 1206, NP0, 2,000 V, 220 pF |                   |              | 220 pF      |           |                           |              | MCCA000741  |
| Capacitor, 1206, X7R, 200 V, 150 pF   |                   | X7R          | 150 pF      | ±10%      | 200 V                     |              | MCCA000742  |
| Capacitor, 1206, X7R, 200 V, 220 pF   |                   |              | 220 pF      |           |                           |              | MCCA000743  |
| Capacitor, 1206, X7R, 200 V, 330 pF   |                   |              | 330 pF      |           |                           |              | MCCA000744  |
| Capacitor, 1206, X7R, 200 V, 470 pF   |                   |              | 470 pF      |           |                           |              | MCCA000745  |
| Capacitor, 1206, X7R, 200 V, 680 pF   |                   |              | 680 pF      |           |                           |              | MCCA000746  |
| Capacitor, 1206, X7R, 200 V, 1 nF     |                   |              | 1 nF        |           |                           |              | MCCA000747  |
| Capacitor, 1206, X7R, 200 V, 1.5 nF   |                   |              | 1.5 nF      |           |                           |              | MCCA000748  |
| Capacitor, 1206, X7R, 200 V, 2.2 nF   |                   |              | 2.2 nF      |           |                           |              | MCCA000749  |
| Capacitor, 1206, X7R, 200 V, 3.3 nF   |                   |              | 3.3 nF      |           |                           |              | MCCA000750  |
| Capacitor, 1206, X7R, 200 V, 4.7 nF   |                   |              | 4.7 nF      |           |                           |              | MCCA000751  |
| Capacitor, 1206, X7R, 200 V, 6.8 nF   |                   |              | 6.8 nF      |           |                           |              | MCCA000752  |
| Capacitor, 1206, X7R, 200 V, 10 nF    |                   |              | 10 nF       |           |                           |              | MCCA000753  |
| Capacitor, 1206, X7R, 200 V, 33 nF    |                   |              | 33 nF       |           |                           |              | MCCA000754  |
| Capacitor, 1206, X7R, 200 V, 47 nF    |                   |              | 47 nF       |           |                           |              | MCCA000755  |
| Capacitor, 1206, X7R, 200 V, 68 nF    |                   |              | 68 nF       |           |                           |              | MCCA000756  |
| Capacitor, 1206, X7R, 200 V, 100 nF   |                   |              | 100 nF      |           |                           |              | MCCA000757  |
| Capacitor, 1206, X7R, 630 V, 150 pF   |                   |              | 150 pF      |           | 630 V                     |              | MCCA000758  |
| Capacitor, 1206, X7R, 630 V, 220 pF   |                   |              | 220 pF      |           |                           |              | MCCA000759  |
| Capacitor, 1206, X7R, 630 V, 330 pF   |                   |              | 330 pF      |           |                           |              | MCCA000760  |
| Capacitor, 1206, X7R, 630 V, 470 pF   |                   |              | 470 pF      |           |                           |              | MCCA000761  |



## Part Number Table

| Description                           | Size Inch (mm) | Dielectric | Capacitance | Tolerance | Rated Voltage (VDC) | Termination  | Part Number |
|---------------------------------------|----------------|------------|-------------|-----------|---------------------|--------------|-------------|
| Capacitor, 1206, X7R, 630 V, 680 pF   | 1206 (3216)    | X7R        | 680 pF      | ±10%      | 630 V               | Cu / Ni / Sn | MCCA000762  |
| Capacitor, 1206, X7R, 630 V, 1.5 nF   |                |            | 1.5 nF      |           |                     |              | MCCA000763  |
| Capacitor, 1206, X7R, 630 V, 3.3 nF   |                |            | 3.3 nF      |           |                     |              | MCCA000764  |
| Capacitor, 1206, X7R, 630 V, 6.8 nF   |                |            | 6.8 nF      |           |                     |              | MCCA000765  |
| Capacitor, 1206, X7R, 630 V, 15 nF    |                |            | 15 nF       |           |                     |              | MCCA000766  |
| Capacitor, 1206, X7R, 630 V, 22 nF    |                |            | 22 nF       |           |                     |              | MCCA000767  |
| Capacitor, 1206, X7R, 630 V, 33 nF    |                |            | 33 nF       |           |                     |              | MCCA000768  |
| Capacitor, 1206, X7R, 1,000 V, 150 pF |                |            | 150 pF      |           | MCCA000769          |              |             |
| Capacitor, 1206, X7R, 1,000 V, 220 pF |                |            | 220 pF      |           | MCCA000770          |              |             |
| Capacitor, 1206, X7R, 1,000 V, 330 pF |                |            | 330 pF      |           | MCCA000771          |              |             |
| Capacitor, 1206, X7R, 1,000 V, 470 pF |                |            | 470 pF      |           | MCCA000772          |              |             |
| Capacitor, 1206, X7R, 1,000 V, 680 pF |                |            | 680 pF      |           | MCCA000773          |              |             |
| Capacitor, 1206, X7R, 1,000 V, 1 nF   |                |            | 1 nF        |           | MCCA000774          |              |             |
| Capacitor, 1206, X7R, 1,000 V, 1.5 nF |                |            | 1.5 nF      |           | MCCA000775          |              |             |
| Capacitor, 1206, X7R, 1,000 V, 2.2 nF |                |            | 2.2 nF      |           | MCCA000776          |              |             |
| Capacitor, 1206, X7R, 1,000 V, 3.3 nF |                |            | 3.3 nF      |           | MCCA000777          |              |             |
| Capacitor, 1206, X7R, 1,000 V, 4.7 nF |                |            | 4.7 nF      |           | MCCA000778          |              |             |
| Capacitor, 1206, X7R, 1,000 V, 6.8 nF |                |            | 6.8 nF      |           | MCCA000779          |              |             |
| Capacitor, 1206, X7R, 1,000 V, 10 nF  |                |            | 10 nF       |           | MCCA000780          |              |             |
| Capacitor, 1206, X7R, 2,000 V, 150 pF |                |            | 150 pF      |           | MCCA000781          |              |             |
| Capacitor, 1206, X7R, 2,000 V, 220 pF |                |            | 220 pF      |           | MCCA000782          |              |             |
| Capacitor, 1206, X7R, 2,000 V, 330 pF |                |            | 330 pF      |           | MCCA000783          |              |             |
| Capacitor, 1206, X7R, 2,000 V, 470 pF |                |            | 470 pF      |           | MCCA000784          |              |             |
| Capacitor, 1206, X7R, 2,000 V, 680 pF |                |            | 680 pF      |           | MCCA000785          |              |             |
| Capacitor, 1206, X7R, 2,000 V, 1 nF   |                |            | 1 nF        |           | MCCA000786          |              |             |
| Capacitor, 1210, NP0, 1,000 V, 10 pF  | 1210 (3225)    | NP0 (C0G)  | 10 pF       | ±5%       | 1,000 V             | MCCA000787   |             |
| Capacitor, 1210, NP0, 1,000 V, 15 pF  |                |            | 15 pF       |           |                     | MCCA000788   |             |
| Capacitor, 1210, NP0, 1,000 V, 22 pF  |                |            | 22 pF       |           |                     | MCCA000789   |             |
| Capacitor, 1210, NP0, 1,000 V, 33 pF  |                |            | 33 pF       |           |                     | MCCA000790   |             |
| Capacitor, 1210, NP0, 1,000 V, 47 pF  |                |            | 47 pF       |           |                     | MCCA000791   |             |
| Capacitor, 1210, NP0, 1,000 V, 68 pF  |                |            | 68 pF       |           |                     | MCCA000792   |             |
| Capacitor, 1210, NP0, 1,000 V, 100 pF |                |            | 100 pF      |           |                     | MCCA000793   |             |

## Part Number Table

| Description                           | Size Inch<br>(mm) | Dielectric   | Capacitance | Tolerance  | Rated<br>Voltage<br>(VDC) | Termination  | Part Number |       |            |
|---------------------------------------|-------------------|--------------|-------------|------------|---------------------------|--------------|-------------|-------|------------|
| Capacitor, 1210, NP0, 1,000 V, 150 pF | 1210<br>(3225)    | NP0<br>(C0G) | 150 pF      | ±5%        | 1,000 V                   | Cu / Ni / Sn | MCCA000794  |       |            |
| Capacitor, 1210, NP0, 1,000 V, 220 pF |                   |              | 220 pF      |            |                           |              | MCCA000795  |       |            |
| Capacitor, 1210, NP0, 1,000 V, 330 pF |                   |              | 330 pF      |            |                           |              | MCCA000796  |       |            |
| Capacitor, 1210, NP0, 1,000 V, 470 pF |                   |              | 470 pF      |            |                           |              | MCCA000797  |       |            |
| Capacitor, 1210, NP0, 2,000 V, 10 pF  |                   |              | 10 pF       |            |                           |              | MCCA000798  |       |            |
| Capacitor, 1210, NP0, 2,000 V, 15 pF  |                   |              | 15 pF       |            | MCCA000799                |              |             |       |            |
| Capacitor, 1210, NP0, 2,000 V, 22 pF  |                   |              | 22 pF       |            | MCCA000800                |              |             |       |            |
| Capacitor, 1210, NP0, 2,000 V, 33 pF  |                   |              | 33 pF       |            | MCCA000801                |              |             |       |            |
| Capacitor, 1210, NP0, 2,000 V, 47 pF  |                   |              | 47 pF       |            | MCCA000802                |              |             |       |            |
| Capacitor, 1210, NP0, 2,000 V, 68 pF  |                   |              | 68 pF       |            | MCCA000803                |              |             |       |            |
| Capacitor, 1210, NP0, 2,000 V, 100 pF |                   |              | 100 pF      |            | MCCA000804                |              |             |       |            |
| Capacitor, 1210, NP0, 2,000 V, 150 pF |                   |              | 150 pF      |            | MCCA000805                |              |             |       |            |
| Capacitor, 1210, NP0, 2,000 V, 220 pF |                   |              | 220 pF      |            | MCCA000806                |              |             |       |            |
| Capacitor, 1210, X7R, 200 V, 1 nF     |                   |              | X7R         |            | 1 nF                      |              | ±10%        | 200 V | MCCA000807 |
| Capacitor, 1210, X7R, 200 V, 1.5 nF   |                   |              |             |            | 1.5 nF                    |              |             |       | MCCA000808 |
| Capacitor, 1210, X7R, 200 V, 2.2 nF   |                   | 2.2 nF       |             | MCCA000809 |                           |              |             |       |            |
| Capacitor, 1210, X7R, 200 V, 3.3 nF   |                   | 3.3 nF       |             | MCCA000810 |                           |              |             |       |            |
| Capacitor, 1210, X7R, 200 V, 4.7 nF   |                   | 4.7 nF       |             | MCCA000811 |                           |              |             |       |            |
| Capacitor, 1210, X7R, 200 V, 6.8 nF   |                   | 6.8 nF       |             | MCCA000812 |                           |              |             |       |            |
| Capacitor, 1210, X7R, 200 V, 10 nF    |                   | 10 nF        |             | MCCA000813 |                           |              |             |       |            |
| Capacitor, 1210, X7R, 200 V, 15 nF    |                   | 15 nF        |             | MCCA000814 |                           |              |             |       |            |
| Capacitor, 1210, X7R, 200 V, 22 nF    |                   | 22 nF        |             | MCCA000815 |                           |              |             |       |            |
| Capacitor, 1210, X7R, 200 V, 33 nF    |                   | 33 nF        |             | MCCA000816 |                           |              |             |       |            |
| Capacitor, 1210, X7R, 200 V, 47 nF    |                   | 47 nF        |             | MCCA000817 |                           |              |             |       |            |
| Capacitor, 1210, X7R, 200 V, 68 nF    |                   | 68 nF        |             | MCCA000818 |                           |              |             |       |            |
| Capacitor, 1210, X7R, 200 V, 100 nF   |                   | 100 nF       |             | MCCA000819 |                           |              |             |       |            |
| Capacitor, 1210, X7R, 200 V, 150 nF   |                   | 150 nF       |             | MCCA000820 |                           |              |             |       |            |
| Capacitor, 1210, X7R, 200 V, 220 nF   |                   | 220 nF       |             | MCCA000821 |                           |              |             |       |            |
| Capacitor, 1210, X7R, 200 V, 330 nF   |                   | 330 nF       |             | MCCA000822 |                           |              |             |       |            |
| Capacitor, 1210, X7R, 200 V, 470 nF   |                   | 470 nF       |             | MCCA000823 |                           |              |             |       |            |
| Capacitor, 1210, X7R, 630 V, 1 nF     |                   | 1 nF         |             | 630 V      | MCCA000824                |              |             |       |            |
| Capacitor, 1210, X7R, 630 V, 1.5 nF   |                   | 1.5 nF       |             |            | MCCA000825                |              |             |       |            |
| Capacitor, 1210, X7R, 630 V, 2.2 nF   |                   | 2.2 nF       |             |            | MCCA000826                |              |             |       |            |

## Part Number Table

| Description                           | Size Inch<br>(mm) | Dielectric | Capacitance    | Tolerance | Rated<br>Voltage<br>(VDC) | Termination  | Part Number |     |         |            |
|---------------------------------------|-------------------|------------|----------------|-----------|---------------------------|--------------|-------------|-----|---------|------------|
| Capacitor, 1210, X7R, 630 V, 3.3 nF   | 1210<br>(3225)    | X7R        | 3.3 nF         | ±10%      | 630 V                     | Cu / Ni / Sn | MCCA000827  |     |         |            |
| Capacitor, 1210, X7R, 630 V, 4.7 nF   |                   |            | 4.7 nF         |           |                           |              | MCCA000828  |     |         |            |
| Capacitor, 1210, X7R, 630 V, 6.8 nF   |                   |            | 6.8 nF         |           |                           |              | MCCA000829  |     |         |            |
| Capacitor, 1210, X7R, 630 V, 10 nF    |                   |            | 10 nF          |           |                           |              | MCCA000830  |     |         |            |
| Capacitor, 1210, X7R, 630 V, 15 nF    |                   |            | 15 nF          |           |                           |              | MCCA000831  |     |         |            |
| Capacitor, 1210, X7R, 630 V, 22 nF    |                   |            | 22 nF          |           |                           |              | MCCA000832  |     |         |            |
| Capacitor, 1210, X7R, 630 V, 33 nF    |                   |            | 33 nF          |           |                           |              | MCCA000833  |     |         |            |
| Capacitor, 1210, X7R, 630 V, 47 nF    |                   |            | 47 nF          |           |                           |              | MCCA000834  |     |         |            |
| Capacitor, 1210, X7R, 1,000 V, 1 nF   |                   |            | 1 nF           |           | MCCA000835                |              |             |     |         |            |
| Capacitor, 1210, X7R, 1,000 V, 1.5 nF |                   |            | 1.5 nF         |           | MCCA000836                |              |             |     |         |            |
| Capacitor, 1210, X7R, 1,000 V, 2.2 nF |                   |            | 2.2 nF         |           | MCCA000837                |              |             |     |         |            |
| Capacitor, 1210, X7R, 1,000 V, 3.3 nF |                   |            | 3.3 nF         |           | MCCA000838                |              |             |     |         |            |
| Capacitor, 1210, X7R, 1,000 V, 4.7 nF |                   |            | 4.7 nF         |           | MCCA000839                |              |             |     |         |            |
| Capacitor, 1210, X7R, 1,000 V, 6.8 nF |                   |            | 6.8 nF         |           | MCCA000840                |              |             |     |         |            |
| Capacitor, 1210, X7R, 1,000 V, 10 nF  |                   |            | 10 nF          |           | MCCA000841                |              |             |     |         |            |
| Capacitor, 1812, NP0, 1,000 V, 15 pF  |                   |            | 1812<br>(4532) |           | NP0<br>(C0G)              |              | 15 pF       | ±5% | 1,000 V | MCCA000842 |
| Capacitor, 1812, NP0, 1,000 V, 22 pF  |                   |            |                |           |                           |              | 22 pF       |     |         | MCCA000843 |
| Capacitor, 1812, NP0, 1,000 V, 33 pF  |                   |            |                |           |                           |              | 33 pF       |     |         | MCCA000844 |
| Capacitor, 1812, NP0, 1,000 V, 47 pF  | 47 pF             | MCCA000845 |                |           |                           |              |             |     |         |            |
| Capacitor, 1812, NP0, 1,000 V, 68 pF  | 68 pF             | MCCA000846 |                |           |                           |              |             |     |         |            |
| Capacitor, 1812, NP0, 1,000 V, 100 pF | 100 pF            | MCCA000847 |                |           |                           |              |             |     |         |            |
| Capacitor, 1812, NP0, 1,000 V, 150 pF | 150 pF            | MCCA000848 |                |           |                           |              |             |     |         |            |
| Capacitor, 1812, NP0, 1,000 V, 220 pF | 220 pF            | MCCA000849 |                |           |                           |              |             |     |         |            |
| Capacitor, 1812, NP0, 1,000 V, 330 pF | 330 pF            | MCCA000850 |                |           |                           |              |             |     |         |            |
| Capacitor, 1812, NP0, 1,000 V, 470 pF | 470 pF            | MCCA000851 |                |           |                           |              |             |     |         |            |
| Capacitor, 1812, NP0, 1,000 V, 680 pF | 680 pF            | MCCA000852 |                |           |                           |              |             |     |         |            |
| Capacitor, 1812, NP0, 1,000 V, 1 nF   | 1 nF              | MCCA000853 |                |           |                           |              |             |     |         |            |
| Capacitor, 1812, NP0, 1,000 V, 1.5 nF | 1.5 nF            | MCCA000854 |                |           |                           |              |             |     |         |            |
| Capacitor, 1812, NP0, 3,000 V, 10 pF  | 10 pF             | MCCA000855 |                |           |                           |              |             |     |         |            |
| Capacitor, 1812, NP0, 3,000 V, 15 pF  | 15 pF             | MCCA000856 |                |           |                           |              |             |     |         |            |
| Capacitor, 1812, NP0, 3,000 V, 22 pF  | 22 pF             | MCCA000857 |                |           |                           |              |             |     |         |            |
| Capacitor, 1812, NP0, 3,000 V, 33 pF  | 33 pF             | MCCA000858 |                |           |                           |              |             |     |         |            |
| Capacitor, 1812, NP0, 3,000 V, 47 pF  | 47 pF             | MCCA000859 |                |           |                           |              |             |     |         |            |

## Part Number Table

| Description                           | Size Inch<br>(mm) | Dielectric   | Capacitance | Tolerance | Rated<br>Voltage<br>(VDC) | Termination  | Part Number |            |
|---------------------------------------|-------------------|--------------|-------------|-----------|---------------------------|--------------|-------------|------------|
| Capacitor, 1812, NP0, 3,000 V, 68 pF  | 1812<br>(4532)    | NP0<br>(C0G) | 68 pF       | ±5%       | 3,000 V                   | Cu / Ni / Sn | MCCA000860  |            |
| Capacitor, 1812, NP0, 3,000 V, 100 pF |                   |              | 100 pF      |           |                           |              | MCCA000861  |            |
| Capacitor, 1812, NP0, 3,000 V, 150 pF |                   |              | 150 pF      |           |                           |              | MCCA000862  |            |
| Capacitor, 1812, NP0, 3,000 V, 220 pF |                   |              | 220 pF      |           |                           |              | MCCA000863  |            |
| Capacitor, 1812, NP0, 3,000 V, 330 pF |                   |              | 330 pF      |           |                           |              | MCCA000864  |            |
| Capacitor, 1812, NP0, 3,000 V, 470 pF |                   |              | 470 pF      |           |                           |              | MCCA000865  |            |
| Capacitor, 1812, X7R, 630 V, 1 nF     |                   | X7R          | 1 nF        | ±10%      | 630 V                     |              | MCCA000866  |            |
| Capacitor, 1812, X7R, 630 V, 1.5 nF   |                   |              | 1.5 nF      |           |                           |              | MCCA000867  |            |
| Capacitor, 1812, X7R, 630 V, 2.2 nF   |                   |              | 2.2 nF      |           |                           |              | MCCA000868  |            |
| Capacitor, 1812, X7R, 630 V, 3.3 nF   |                   |              | 3.3 nF      |           |                           |              | MCCA000869  |            |
| Capacitor, 1812, X7R, 630 V, 4.7 nF   |                   |              | 4.7 nF      |           |                           |              | MCCA000870  |            |
| Capacitor, 1812, X7R, 630 V, 6.8 nF   |                   |              | 6.8 nF      |           |                           |              | MCCA000871  |            |
| Capacitor, 1812, X7R, 630 V, 10 nF    |                   |              | 10 nF       |           |                           |              | MCCA000872  |            |
| Capacitor, 1812, X7R, 630 V, 15 nF    |                   |              | 15 nF       |           |                           |              | MCCA000873  |            |
| Capacitor, 1812, X7R, 630 V, 22 nF    |                   |              | 22 nF       |           |                           |              | MCCA000874  |            |
| Capacitor, 1812, X7R, 630 V, 33 nF    |                   |              | 33 nF       |           |                           |              | MCCA000875  |            |
| Capacitor, 1812, X7R, 630 V, 47 nF    |                   |              | 47 nF       |           |                           |              | MCCA000876  |            |
| Capacitor, 1812, X7R, 630 V, 68 nF    |                   |              | 68 nF       |           |                           |              | MCCA000877  |            |
| Capacitor, 1812, X7R, 630 V, 100 nF   |                   |              | 100 nF      |           |                           |              | MCCA000878  |            |
| Capacitor, 1812, X7R, 1,000 V, 330 pF |                   |              | 330 pF      |           | 1,000 V                   |              | MCCA000879  |            |
| Capacitor, 1812, X7R, 1,000 V, 470 pF |                   |              | 470 pF      |           |                           |              | MCCA000880  |            |
| Capacitor, 1812, X7R, 1,000 V, 680 pF |                   |              | 680 pF      |           |                           |              | MCCA000881  |            |
| Capacitor, 1812, X7R, 1,000 V, 1 nF   |                   |              | 1 nF        |           |                           |              | MCCA000882  |            |
| Capacitor, 1812, X7R, 1,000 V, 1.5 nF |                   |              | 1.5 nF      |           |                           |              | MCCA000883  |            |
| Capacitor, 1812, X7R, 1,000 V, 2.2 nF |                   |              | 2.2 nF      |           |                           |              | MCCA000884  |            |
| Capacitor, 1812, X7R, 1,000 V, 3.3 nF |                   |              | 3.3 nF      |           |                           |              | MCCA000885  |            |
| Capacitor, 1812, X7R, 1,000 V, 4.7 nF |                   |              | 4.7 nF      |           |                           |              | MCCA000886  |            |
| Capacitor, 1812, X7R, 1,000 V, 6.8 nF |                   |              | 6.8 nF      |           |                           |              | MCCA000887  |            |
| Capacitor, 1812, X7R, 1,000 V, 10 nF  |                   |              | 10 nF       |           |                           |              | MCCA000888  |            |
| Capacitor, 1812, X7R, 1,000 V, 15 nF  |                   |              | 15 nF       |           |                           |              | MCCA000889  |            |
| Capacitor, 1812, X7R, 3,000 V, 680 pF |                   |              | 680 pF      |           |                           |              | 3,000 V     | MCCA000890 |
| Capacitor, 1812, X7R, 3,000 V, 1 nF   |                   |              | 1 nF        |           |                           |              |             | MCCA000891 |

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