

| Case Size<br>inch (mm) | Capacitance | 100  | 200  | 300  | 390  | 470  | 560  | 680  | 750  | 820  | 910  | 101   | 151   | 201   | 221   | 271   | 301   | 331   | 391   | 471   | 561   | 681   | 821   | 102 |  |
|------------------------|-------------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|--|
|                        | Voltage     | 10pF | 20pF | 33pF | 39pF | 47pF | 56pF | 68pF | 75pF | 82pF | 91pF | 100pF | 150pF | 200pF | 220pF | 270pF | 300pF | 330pF | 390pF | 470pF | 560pF | 680pF | 820pF | 1nF |  |
| 0201 (0603)            | 16          |      |      |      |      |      |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |       |       |     |  |
|                        | 25          |      |      |      |      |      |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |       |       |     |  |
|                        | 50          |      |      |      |      |      |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |       |       |     |  |
|                        | 100         |      |      |      |      |      |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |       |       |     |  |
| 0402 (1005)            | 16          |      |      |      |      |      |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |       |       |     |  |
|                        | 25          |      |      |      |      |      |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |       |       |     |  |
|                        | 50          |      |      |      |      |      |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |       |       |     |  |
|                        | 250         |      |      |      |      |      |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |       |       |     |  |
| 0603 (1608)            | 50          |      |      |      |      |      |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |       |       |     |  |
|                        | 100         |      |      |      |      |      |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |       |       |     |  |
|                        | 250         |      |      |      |      |      |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |       |       |     |  |
| 0805 (2012)            | 50          |      |      |      |      |      |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |       |       |     |  |
|                        | 100         |      |      |      |      |      |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |       |       |     |  |
|                        | 250         |      |      |      |      |      |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |       |       |     |  |

\* weitere Zwischenwerte verfügbar

| Case Size<br>inch (mm) | Capacitance | 102 | 222   | 472   | 103  | 223  | 473  | 104   | 224   | 474   | 105 | 225   | 475   | 106  | 226  | 476  | 107    | 227    |  |
|------------------------|-------------|-----|-------|-------|------|------|------|-------|-------|-------|-----|-------|-------|------|------|------|--------|--------|--|
|                        | Voltage     | 1nF | 2.2nF | 4.7nF | 10nF | 22nF | 47nF | 100nF | 220nF | 470nF | 1µF | 2.2µF | 4.7µF | 10µF | 22µF | 47µF | 100 µF | 220 µF |  |
| 0201 (0603)            | 4           |     |       |       |      |      |      |       |       |       |     |       |       |      |      |      |        |        |  |
|                        | 6,3         |     |       |       |      | X7T  | X7T  | X7T   |       |       |     |       |       |      |      |      |        |        |  |
|                        | 10          | X7R | X7R   | X7R   | X7R  |      |      | X7S   |       |       |     |       |       |      |      |      |        |        |  |
|                        | 16          | X7R | X7R   |       |      |      |      |       |       |       |     |       |       |      |      |      |        |        |  |
|                        | 25          | X7R | X7R   |       |      |      |      |       |       |       |     |       |       |      |      |      |        |        |  |
| 0402 (1005)            | 4           |     |       |       |      |      |      |       |       | X7R   |     | X5R   | X5R   |      |      |      |        |        |  |
|                        | 6,3         |     |       |       |      |      |      | X7R   | X7R   | X7R   | X7T | X7T   | X5R   |      |      |      |        |        |  |
|                        | 10          |     |       |       |      |      | X7R  | X7R   | X7R   | X5R   | X7T | X5R   |       |      |      |      |        |        |  |
|                        | 16          |     |       |       | X7R  | X7R  | X7R  | X7R   | X7R   | X6S   | X5R |       |       |      |      |      |        |        |  |
|                        | 25          |     |       | X7R   | X7R  | X7R  | X7R  | X7R   | X5R   | X5R   |     |       |       |      |      |      |        |        |  |
|                        | 50          | X7R | X7R   | X7R   | X7R  | X7R  | X7R  | X7R   |       |       |     |       |       |      |      |      |        |        |  |
|                        | 100         | X7R | X7R   | X7R   | X7R  |      |      |       |       |       |     |       |       |      |      |      |        |        |  |
| 0603 (1608)            | 4           |     |       |       |      |      |      |       |       |       |     |       |       | X5R  | X5R  |      |        |        |  |
|                        | 6,3         |     |       |       |      |      |      |       |       |       | X7R | X7R   | X6S   | X7T  |      |      |        |        |  |
|                        | 10          |     |       |       |      |      |      |       |       | X7R   | X7R | X7T   | X5R   | X5R  |      |      |        |        |  |
|                        | 16          |     |       |       |      |      |      |       | X7R   | X7R   | X7R | X5R   | X5R   |      |      |      |        |        |  |
|                        | 25          |     |       |       |      |      | X7R  | X7R   | X7R   | X7R   | X7R | X5R   |       |      |      |      |        |        |  |
|                        | 35          |     |       |       |      |      | X7R  | X7R   | X7R   | X7R   | X7R |       |       |      |      |      |        |        |  |
|                        | 50          | X7R | X7R   | X7R   | X7R  | X7R  | X7R  | X7R   | X7S   | X5R   | X5R |       |       |      |      |      |        |        |  |
|                        | 100         | X7R | X7R   | X7R   | X7R  | X7R  | X7R  | X7R   | X7S   |       |     |       |       |      |      |      |        |        |  |
| 0805 (2012)            | 4           |     |       |       |      |      |      |       |       |       |     |       |       |      |      | X7T  | X6S    |        |  |
|                        | 6,3         |     |       |       |      |      |      |       |       |       |     |       | X7R   | X7R  | X7T  |      |        |        |  |
|                        | 10          |     |       |       |      |      |      |       |       |       |     | X7R   | X7R   | X7R  |      |      |        |        |  |
|                        | 16          |     |       |       |      |      |      |       |       |       | X7R | X7R   | X7R   | X5R  |      |      |        |        |  |
|                        | 25          |     |       |       |      |      |      |       |       | X7R   | X7R | X7R   | X7S   | X5R  |      |      |        |        |  |
|                        | 35          |     |       |       |      |      |      |       |       |       | X7R | X5R   |       |      |      |      |        |        |  |
|                        | 50          |     |       |       | X7R  | X7R  | X7R  | X7R   | X7R   | X7S   | X7R |       |       |      |      |      |        |        |  |
|                        | 100         |     |       |       |      |      | X7R  | X7R   | X7R   | X7S   | X7S |       |       |      |      |      |        |        |  |
|                        | 250         | X7R | X7R   | X7R   | X7R  | X7R  | X7R  | X7R   |       |       |     |       |       |      |      |      |        |        |  |

X=-55°C, 5=+85°C, 6=+105°C, 7=+125°C – R / S / T = über den spezifizierten Temperaturbereich ist eine Kapazitätsänderung von ±15% / ±22% / -33% bis+22% erlaubt.

| Case Size<br>inch (mm) | Capacitance | 102 | 222   | 472   | 103  | 223  | 473  | 104   | 224   | 474   | 105 | 225   | 475   | 106  | 226  | 476  | 107    | 227    |
|------------------------|-------------|-----|-------|-------|------|------|------|-------|-------|-------|-----|-------|-------|------|------|------|--------|--------|
|                        | Voltage     | 1nF | 2.2nF | 4.7nF | 10nF | 22nF | 47nF | 100nF | 220nF | 470nF | 1µF | 2.2µF | 4.7µF | 10µF | 22µF | 47µF | 100 µF | 220 µF |
| 1206 (3216)            | 4           |     |       |       |      |      |      |       |       |       |     |       |       |      | X7R  | X7S  | X5R    |        |
|                        | 6,3         |     |       |       |      |      |      |       |       |       |     |       |       |      | X7R  | X5R  | X5R    |        |
|                        | 10          |     |       |       |      |      |      |       |       |       |     |       |       | X7R  | X7R  |      |        |        |
|                        | 16          |     |       |       |      |      |      |       |       |       |     |       | X7R   | X7R  | X5R  |      |        |        |
|                        | 25          |     |       |       |      |      |      |       |       |       |     |       | X7R   | X7R  |      |      |        |        |
|                        | 35          |     |       |       |      |      |      |       |       |       |     | X7R   | X7R   | X7R  |      |      |        |        |
|                        | 50          |     |       |       |      |      |      |       |       |       | X7R | X7R   | X7S   |      |      |      |        |        |
|                        | 100         |     |       |       |      |      |      | X7R   | X7R   | X7R   | X7S |       |       |      |      |      |        |        |
|                        | 250         |     |       |       |      | X7R  | X7R  | X7R   |       |       |     |       |       |      |      |      |        |        |
|                        | 630         | X7R | X7R   | X7R   | X7R  | X7R  | X7R  |       |       |       |     |       |       |      |      |      |        |        |
| 1210 (3225)            | 4           |     |       |       |      |      |      |       |       |       |     |       |       |      |      |      |        | X6S    |
|                        | 6,3         |     |       |       |      |      |      |       |       |       |     |       |       |      |      | X7R  | X6S    |        |
|                        | 10          |     |       |       |      |      |      |       |       |       |     |       |       |      | X7R  | X5R  | X5R    |        |
|                        | 16          |     |       |       |      |      |      |       |       |       |     |       |       |      | X7R  | X5R  |        |        |
|                        | 25          |     |       |       |      |      |      |       |       |       |     |       |       | X7R  | X7R  |      |        |        |
|                        | 35          |     |       |       |      |      |      |       |       |       |     |       |       | X7R  |      |      |        |        |
|                        | 50          |     |       |       |      |      |      |       |       |       |     |       | X7R   | X7R  |      |      |        |        |
|                        | 100         |     |       |       |      |      |      |       |       |       | X7R | X7S   |       |      |      |      |        |        |
|                        | 250         |     |       |       |      |      | X7R  | X7R   | X7R   |       |     |       |       |      |      |      |        |        |
|                        | 630         |     |       |       |      | X7R  | X7R  |       |       |       |     |       |       |      |      |      |        |        |
| 1812 (4532)            | 100         |     |       |       |      |      |      |       |       |       |     |       |       |      |      |      |        |        |
|                        | 250         |     |       |       |      |      |      | X7R   | X7R   | X7R   |     |       |       |      |      |      |        |        |
|                        | 630         |     |       |       |      |      |      | X7R   | X7R   |       |     |       |       |      |      |      |        |        |
|                        | 1KV         |     |       |       |      |      |      |       |       |       |     |       |       |      |      |      |        |        |
|                        | 2KV         |     |       |       |      |      |      |       |       |       |     |       |       |      |      |      |        |        |

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| Case Size<br>inch (mm) | Capacitance | 102 | 222   | 472   | 103  | 223  | 473  | 104   | 224   | 474   | 105 | 225   | 475   | 106  | 226  | 476  |
|------------------------|-------------|-----|-------|-------|------|------|------|-------|-------|-------|-----|-------|-------|------|------|------|
|                        | Voltage     | 1nF | 2.2nF | 4.7nF | 10nF | 22nF | 47nF | 100nF | 220nF | 470nF | 1µF | 2.2µF | 4.7µF | 10µF | 22µF | 47µF |
| 0603 (1608)            | 25          |     |       |       |      |      | X7R  | X7R   | X7R   | X7R   | X7R |       |       |      |      |      |
|                        | 35          |     |       |       |      |      | X7R  | X7R   | X7R   | X7R   | X7R |       |       |      |      |      |
|                        | 50          | X7R | X7R   | X7R   | X7R  | X7R  | X7R  | X7R   |       |       |     |       |       |      |      |      |
|                        | 100         | X7R | X7R   | X7R   | X7R  | X7R  | X7R  | X7R   |       |       |     |       |       |      |      |      |
| 0805 (2012)            | 6,3         |     |       |       |      |      |      |       |       |       |     |       |       | X7R  |      |      |
|                        | 10          |     |       |       |      |      |      |       |       |       |     |       |       |      |      |      |
|                        | 16          |     |       |       |      |      |      |       |       |       |     | X7R   | X7R   |      |      |      |
|                        | 25          |     |       |       |      |      |      |       |       |       |     | X7R   |       |      |      |      |
|                        | 35          |     |       |       |      |      |      |       |       |       | X7R |       |       |      |      |      |
|                        | 50          |     |       |       | X7R  | X7R  | X7R  | X7R   | X7R   | X7S   | X7R |       |       |      |      |      |
|                        | 100         | X7R | X7R   | X7R   | X7R  | X7R  | X7R  | X7R   | X7R   | X7S   | X7S |       |       |      |      |      |
|                        | 250         | X7R | X7R   | X7R   | X7R  | X7R  |      |       |       |       |     |       |       |      |      |      |
| 1206 (3216)            | 10          |     |       |       |      |      |      |       |       |       |     |       |       |      |      | X7R  |
|                        | 16          |     |       |       |      |      |      |       |       |       |     |       | X7R   | X7R  |      |      |
|                        | 25          |     |       |       |      |      |      |       |       | X7R   |     |       | X7R   | X7R  |      |      |
|                        | 35          |     |       |       |      |      |      |       |       | X7R   |     | X7R   | X7R   | X7R  |      |      |
|                        | 50          |     |       |       |      |      | X7R  | X7R   | X7R   | X7R   | X7R | X7R   | X7S   |      |      |      |
|                        | 100         | X7R | X7R   | X7R   | X7R  | X7R  | X7R  | X7R   | X7R   | X7R   | X7R | X7S   |       |      |      |      |
|                        | 250         | X7R | X7R   | X7R   | X7R  | X7R  | X7R  | X7R   |       |       |     |       |       |      |      |      |
|                        | 630         | X7R | X7R   | X7R   | X7R  | X7R  |      |       |       |       |     |       |       |      |      |      |
| 1210 (3225)            | 6,3         |     |       |       |      |      |      |       |       |       |     |       |       |      |      | X7R  |
|                        | 10          |     |       |       |      |      |      |       |       |       |     |       |       |      |      |      |
|                        | 16          |     |       |       |      |      |      |       |       |       |     |       |       |      | X7R  |      |
|                        | 25          |     |       |       |      |      |      |       |       |       |     |       | X7R   | X7R  |      |      |
|                        | 35          |     |       |       |      |      |      |       |       |       |     |       | X7R   | X7R  |      |      |
|                        | 50          |     |       |       |      |      |      |       |       |       |     | X7R   | X7R   | X7R  |      |      |
|                        | 100         |     |       |       |      |      | X7R  | X7R   | X7R   | X7R   | X7R | X7R   | X7S   |      |      |      |
|                        | 250         |     |       |       |      |      | X7R  | X7R   | X7R   |       |     |       |       |      |      |      |
| 630                    |             |     |       |       |      | X7R  | X7R  |       |       |       |     |       |       |      |      |      |

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X=-55°C, 5=+85°C, 6=+105°C, 7=+125°C – Über den spezifizierten Temperaturbereich ist eine Kapazitätsänderung von R = ±15% / S = ±22% / T = -33%/+22% erlaubt.

# What's your mission?

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