



**RM**  
**COMPONENTS**

**ROADMAP MLCC**  
Stand: Q2/2023

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| Case Size<br>inch (mm) | Capacitance | 1R0 | 2R0 | 3R0 | 4R0 | 5R0 | 6R0 | 7R0 | 8R0 | 9R0 | 100  | 120  | 150  | 180  | 220  | 270  | 330  | 390  | 470  | 560  | 680  | 820  | 101   | 221   | 241   | 271   | 331   |  |  |
|------------------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|--|--|
|                        | Voltage     | 1pF | 2pF | 3pF | 4pF | 5pF | 6pF | 7pF | 8pF | 9pF | 10pF | 12pF | 15pF | 18pF | 22pF | 27pF | 33pF | 39pF | 47pF | 56pF | 68pF | 82pF | 100pF | 220pF | 240pF | 270pF | 330pF |  |  |
| 008004 (0201)          | 10          |     |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |       |       |       |       |       |  |  |
|                        | 16          |     |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |       |       |       |       |       |  |  |
|                        | 25          |     |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |       |       |       |       |       |  |  |
|                        | 50          |     |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |       |       |       |       |       |  |  |
| 01005 (0402)           | 10          |     |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |       |       |       |       |       |  |  |
|                        | 16          |     |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |       |       |       |       |       |  |  |
|                        | 25          |     |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |       |       |       |       |       |  |  |
|                        | 50          |     |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |       |       |       |       |       |  |  |

\* weitere Zwischenwerte verfügbar

| Case Size<br>inch (mm) | Capacitance | 200  | 300  | 390  | 470  | 560  | 680  | 750  | 820  | 910  | 101   | 151   | 201   | 221   | 271   | 301   | 331   | 391   | 471   | 561   | 681   | 821   | 102 |  |
|------------------------|-------------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|--|
|                        | Voltage     | 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          |      |      |      |      |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |       |       |     |  |
|                        | 100         |      |      |      |      |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |       |       |     |  |

\* 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         | 157   | 227   | 337   | 477   | 108         |  |
|------------------------|-------------|-----|-------|-------|------|------|------|-------|-------|-------|-----|-------|-------|-------------|------|-------------|-------------|-------|-------|-------|-------|-------------|--|
|                        | Voltage     | 1nF | 2.2nF | 4.7nF | 10nF | 22nF | 47nF | 100nF | 220nF | 470nF | 1µF | 2.2µF | 4.7µF | 10µF        | 22µF | 47µF        | 100µF       | 150µF | 220µF | 330µF | 470µF | 1mF         |  |
| 0201 (0603)            | 2,5         |     |       |       |      |      |      |       |       |       |     |       | X5R   |             |      |             |             |       |       |       |       |             |  |
|                        | 4           |     |       |       |      |      |      |       |       | X6S   | X6S |       | X5R   |             |      |             |             |       |       |       |       |             |  |
|                        | 6,3         |     |       |       |      |      |      | X6S   | X6S   | X6S   | X6S |       |       |             |      |             |             |       |       |       |       |             |  |
|                        | 10          |     |       |       |      | X5R  | X5R  | X6S   | X6S   | X6S   | X5R |       |       |             |      |             |             |       |       |       |       |             |  |
|                        | 16          |     | X7R   | X7R   | X7R  | X7R  | X5R  | X6S   | X5R   | X5R   |     |       |       |             |      |             |             |       |       |       |       |             |  |
|                        | 25          |     | X7R   | X7R   | X7R  | X5R  |      | X6S   |       |       |     |       |       |             |      |             |             |       |       |       |       |             |  |
|                        | 35          |     |       |       |      |      |      | X5R   |       |       |     |       |       |             |      |             |             |       |       |       |       |             |  |
|                        | 50          | X7R | X5R   | X5R   | X5R  |      |      |       |       |       |     |       |       |             |      |             |             |       |       |       |       |             |  |
| 0402 (1005)            | 2,5         |     |       |       |      |      |      |       |       |       |     |       |       |             | X6S  | coming soon | coming soon |       |       |       |       |             |  |
|                        | 4           |     |       |       |      |      |      |       |       | X5R   | X5R | X5R   | X6S   |             | X5R  | coming soon |             |       |       |       |       |             |  |
|                        | 6,3         |     |       |       |      |      |      |       | X7R   | X7R   | X5R | X6S   | X6S   |             |      |             |             |       |       |       |       |             |  |
|                        | 10          |     |       |       |      |      |      | X5R   | X7R   | X7R   | X6S | X6S   | X5R   |             |      |             |             |       |       |       |       |             |  |
|                        | 16          |     |       |       |      | X7R  | X7R  | X7R   | X7R   | X5R   | X6S | X6S   |       |             |      |             |             |       |       |       |       |             |  |
|                        | 25          |     |       |       | X5R  | X7R  | X7R  | X7R   | X7R   | X5R   | X6S | X5R   |       |             |      |             |             |       |       |       |       |             |  |
|                        | 35          |     |       |       |      |      |      | X5R   |       |       | X6S |       |       |             |      |             |             |       |       |       |       |             |  |
|                        | 50          |     | X7R   | X7R   | X7R  | X7R  | X7R  | X7R   | X5R   | X5R   | X5R |       |       |             |      |             |             |       |       |       |       |             |  |
| 100                    | X7R         | X7R | X7R   |       |      |      |      |       |       |       |     |       |       |             |      |             |             |       |       |       |       |             |  |
| 0603 (1608)            | 2,5         |     |       |       |      |      |      |       |       |       |     |       |       |             |      |             |             |       |       |       |       | coming soon |  |
|                        | 4           |     |       |       |      |      |      |       |       |       |     |       |       |             | X6S  | X6S         |             |       |       |       |       |             |  |
|                        | 6,3         |     |       |       |      |      |      |       |       |       | X5R | X7R   | X7R   | X6S         | X6S  | X5R         |             |       |       |       |       |             |  |
|                        | 10          |     |       |       |      |      |      |       |       |       | X6S | X7R   | X6S   | X6S         | X5R  |             |             |       |       |       |       |             |  |
|                        | 16          |     |       |       |      |      |      |       |       | X7R   | X7R | X7R   | X6S   | X6S         |      |             |             |       |       |       |       |             |  |
|                        | 25          |     |       |       |      |      |      |       |       | X7R   | X7R | X6S   | X5R   | X5R         |      |             |             |       |       |       |       |             |  |
|                        | 35          |     |       |       |      |      |      |       |       |       |     |       | X5R   |             |      |             |             |       |       |       |       |             |  |
|                        | 50          |     |       |       |      |      |      |       | X7R   | X7R   | X7R | X5R   |       |             |      |             |             |       |       |       |       |             |  |
| 100                    | X7R         | X7R | X7R   | X7R   | X7R  | X7R  | X7R  | X7S   |       |       |     |       |       |             |      |             |             |       |       |       |       |             |  |
| 0805 (2012)            | 2,5         |     |       |       |      |      |      |       |       |       |     |       |       |             |      |             |             |       |       |       |       | X5R         |  |
|                        | 4           |     |       |       |      |      |      |       |       |       |     |       |       |             | X6S  | X6S         | X6S         |       |       |       |       | X6S         |  |
|                        | 6,3         |     |       |       |      |      |      |       |       |       |     |       |       | X7R         | X6S  | X6S         | X5R         |       |       |       |       | X5R         |  |
|                        | 10          |     |       |       |      |      |      |       |       |       |     |       |       | X7R         | X6S  | X5R         |             |       |       |       |       |             |  |
|                        | 16          |     |       |       |      |      |      |       |       | X7R   | X7R | X7R   | X7R   | X7R         | X6S  |             |             |       |       |       |       |             |  |
|                        | 25          |     |       |       |      |      |      |       |       | X5R   | X5R | X7R   | X7R   | X6S         | X5R  |             |             |       |       |       |       |             |  |
|                        | 35          |     |       |       |      |      |      |       |       |       | X7R | X5R   | X5R   | X5R         |      |             |             |       |       |       |       |             |  |
|                        | 50          |     |       |       |      |      |      | X7R   | X7R   | X7R   | X7R | X7R   | X5R   | coming soon |      |             |             |       |       |       |       |             |  |
| 100                    |             |     |       | X7R   | X7R  | X7R  | X7R  | X7R   | X7S   | X5R   |     |       |       |             |      |             |             |       |       |       |       |             |  |
| 250                    | X7R         | X7R | X7R   | X7R   | X7R  |      |      |       |       |       |     |       |       |             |      |             |             |       |       |       |       |             |  |

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

| Case Size<br>inch (mm) | Capacitance | 102 | 222   | 472   | 103  | 223  | 473  | 104   | 224   | 474   | 105 | 225   | 475   | 106  | 226  | 476  | 107   | 157   | 227   | 337   | 477         | 108 |     |
|------------------------|-------------|-----|-------|-------|------|------|------|-------|-------|-------|-----|-------|-------|------|------|------|-------|-------|-------|-------|-------------|-----|-----|
|                        | Voltage     | 1nF | 2.2nF | 4.7nF | 10nF | 22nF | 47nF | 100nF | 220nF | 470nF | 1µF | 2.2µF | 4.7µF | 10µF | 22µF | 47µF | 100µF | 150µF | 220µF | 330µF | 470µF       | 1mF |     |
| 1206 (3216)            | 2,5         |     |       |       |      |      |      |       |       |       |     |       |       |      |      |      |       |       |       |       |             |     | X5R |
|                        | 4           |     |       |       |      |      |      |       |       |       |     |       |       |      |      | X7S  | X6S   | X5R   | X6S   |       |             |     |     |
|                        | 6,3         |     |       |       |      |      |      |       |       |       |     |       |       | X5R  | X5R  | X7S  | X5R   | X5R   |       |       |             |     |     |
|                        | 10          |     |       |       |      |      |      |       |       |       |     |       | X5R   | X7R  | X7R  | X6S  |       |       |       |       |             |     |     |
|                        | 16          |     |       |       |      |      |      |       |       |       |     | X5R   | X7R   | X7R  | X7R  | X5R  |       |       |       |       |             |     |     |
|                        | 25          |     |       |       |      |      |      |       |       |       | X5R | X5R   | X7R   | X7R  | X6S  |      |       |       |       |       |             |     |     |
|                        | 35          |     |       |       |      |      |      |       |       |       |     |       | X5R   | X7R  |      |      |       |       |       |       |             |     |     |
|                        | 50          |     |       |       |      |      |      |       |       |       | X5R | X7R   | X7R   | X5R  |      |      |       |       |       |       |             |     |     |
|                        | 100         |     |       |       |      |      | X7R  | X7R   | X7R   | X7R   | X7R | X7S   |       |      |      |      |       |       |       |       |             |     |     |
|                        | 250         |     |       |       |      |      | X7R  | X7R   |       |       |     |       |       |      |      |      |       |       |       |       |             |     |     |
|                        | 630         | X7R | X7R   | X7R   | X7R  | X7R  | X7R  |       |       |       |     |       |       |      |      |      |       |       |       |       |             |     |     |
| 1210 (3225)            | 2,5         |     |       |       |      |      |      |       |       |       |     |       |       |      |      |      |       |       | X6S   | X6S   |             |     |     |
|                        | 4           |     |       |       |      |      |      |       |       |       |     |       |       |      |      |      |       | X6S   | X6S   | X6S   | coming soon |     |     |
|                        | 6,3         |     |       |       |      |      |      |       |       |       |     |       |       |      | X5R  | X7R  | X7S   | X5R   | X5R   | X5R   |             |     |     |
|                        | 10          |     |       |       |      |      |      |       |       |       |     | X5R   | X7R   | X5R  | X7R  | X6S  |       |       |       |       |             |     |     |
|                        | 16          |     |       |       |      |      |      |       |       |       |     | X7R   | X7R   | X7R  | X6S  | X5R  |       |       |       |       |             |     |     |
|                        | 25          |     |       |       |      |      |      |       |       |       |     | X7R   | X7R   | X7R  | X5R  |      |       |       |       |       |             |     |     |
|                        | 35          |     |       |       |      |      |      |       |       |       | X5R | X5R   | X5R   | X5R  |      |      |       |       |       |       |             |     |     |
|                        | 50          |     |       |       |      |      |      |       |       | X5R   | X7R | X7R   |       |      |      |      |       |       |       |       |             |     |     |
|                        | 100         |     |       |       |      |      | X7R  | X7R   | X7R   | X7R   | X7R | X7S   |       |      |      |      |       |       |       |       |             |     |     |
|                        | 250         |     |       |       |      |      | X7R  | X7R   | X7R   |       |     |       |       |      |      |      |       |       |       |       |             |     |     |
|                        | 630         | X7R | X7R   |       |      |      |      |       |       |       |     |       |       |      |      |      |       |       |       |       |             |     |     |
| 1812 (4532)            | 2,5         |     |       |       |      |      |      |       |       |       |     |       |       |      |      |      |       |       |       |       | X6S         | X5R |     |
|                        | 4           |     |       |       |      |      |      |       |       |       |     |       |       |      |      |      |       |       |       |       |             | X5R |     |
|                        | 100         |     |       |       |      |      |      |       |       | X7R   | X7R | X7R   |       |      |      |      |       |       |       |       |             |     |     |
|                        | 250         |     |       |       |      |      |      | X7R   | X7R   | X7R   |     |       |       |      |      |      |       |       |       |       |             |     |     |
|                        | 630         |     |       |       |      |      | X7R  | X7R   |       |       |     |       |       |      |      |      |       |       |       |       |             |     |     |
|                        | 2000        |     | X7R   | X7R   |      |      |      |       |       |       |     |       |       |      |      |      |       |       |       |       |             |     |     |

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

| Case Size<br>inch (mm) | Capacitance | 102 | 222   | 472   | 103  | 223  | 473         | 104         | 105         |
|------------------------|-------------|-----|-------|-------|------|------|-------------|-------------|-------------|
|                        | Voltage     | 1nF | 2.2nF | 4.7nF | 10nF | 22nF | 47nF        | 100nF       | 1uF         |
| 008004 (0201)          | 2,5         |     |       |       |      |      | coming soon | coming soon |             |
|                        | 4           |     |       |       |      | X5R  | coming soon |             |             |
|                        | 6,3         |     | X5R   | X5R   | X5R  |      |             |             |             |
|                        | 16          | X5R |       |       |      |      |             |             |             |
| 01005 (0402)           | 2,5         |     |       |       |      |      |             |             | coming soon |
|                        | 4           |     |       |       |      |      | X5R         | X5R         |             |
|                        | 6,3         |     | X5R   | X5R   | X5R  | X5R  | X5R         | X5R         |             |
|                        | 10          | X7R | X5R   | X5R   | X5R  |      |             |             |             |
|                        | 16          | X7R | X5R   | X5R   | X5R  |      |             |             |             |

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

| 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  |      |      |       |       |       |     |       |       |      |      |      |        |        |
|                        | 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           |     |       |       |      |      |      |       |       |       | X7R | X7R   | X6S   | X7T  |      |      |        |        |
|                        | 10          |     |       |       |      |      |      |       |       | X7R   | X7R | X7T   | X5R   | X5R  |      |      |        |        |
|                        | 16          |     |       |       |      |      |      |       | X7R   | X7R   | X7R | X5R   | X5R   |      |      |      |        |        |
|                        | 25          |     |       |       |      |      | X7R  | X7R   | X7R   | X7R   | X7R | X5R   |       |      |      |      |        |        |
|                        | 50          | X7R | X7R   | X7R   | X7R  | X7R  | X7R  | X7R   | X7S   | X7R   | X5R |       |       |      |      |      |        |        |
|                        | 100         | X7R | X7R   | X7R   | X7R  | X7R  | X7R  | X7R   | X7S   |       |     |       |       |      |      |      |        |        |
| 0805 (2012)            | 4,0         |     |       |       |      |      |      |       |       |       |     |       |       |      | X6S  | X5R  |        |        |
|                        | 6,3         |     |       |       |      |      |      |       |       |       |     |       | X7R   | X7R  | X5R  |      |        |        |
|                        | 10          |     |       |       |      |      |      |       |       |       | X7R | X7R   | X7R   | X7R  |      |      |        |        |
|                        | 16          |     |       |       |      |      |      |       |       |       | X7R | X7R   | X7R   | X5R  |      |      |        |        |
|                        | 25          |     |       |       |      |      |      |       |       | X7R   | X7R | X7R   | X5R   | X5R  |      |      |        |        |
|                        | 35          |     |       |       |      |      |      |       |       |       | X7R | X5R   |       |      |      |      |        |        |
|                        | 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  | 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% / +22% bis -33% 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   | 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  | X7R  |       |       |       |     |       |       |      |      |      |        |        |
| 1210 (3225)            | 4           |     |       |       |      |      |      |       |       |       |     |       |       |      |      |      | X6S    | X5R    |
|                        | 6,3         |     |       |       |      |      |      |       |       |       |     |       |       |      |      |      | X7R    | X6S    |
|                        | 10          |     |       |       |      |      |      |       |       |       |     |       |       |      | X7R  | X5R  | X5R    |        |
|                        | 16          |     |       |       |      |      |      |       |       |       |     |       |       |      | X7R  | X5R  |        |        |
|                        | 25          |     |       |       |      |      |      |       |       |       |     | X7R   | X7R   | X7R  |      |      |        |        |
|                        | 35          |     |       |       |      |      |      |       |       |       |     | X7R   | X7R   |      |      |      |        |        |
|                        | 50          |     |       |       |      |      |      |       |       |       | X7R | X7R   | X7R   |      |      |      |        |        |
|                        | 100         |     |       |       |      |      |      | X7R   | X7R   | X7R   | X7R | X7S   |       |      |      |      |        |        |
|                        | 250         |     |       |       |      | X7R  | X7R  | X7R   | X7R   |       |     |       |       |      |      |      |        |        |
|                        | 630         |     |       |       |      | X7R  | X7R  |       |       |       |     |       |       |      |      |      |        |        |
| 1812 (4532)            | 100         |     |       |       |      |      |      |       |       |       |     |       |       |      |      |      |        |        |
|                        | 250         |     |       |       |      |      |      | X7R   | X7R   | X7R   |     |       |       |      |      |      |        |        |
|                        | 630         |     |       |       |      |      | X7R  | X7R   |       |       |     |       |       |      |      |      |        |        |
|                        | 1KV         |     |       |       |      |      |      |       |       |       |     |       |       |      |      |      |        |        |
|                        | 2KV         |     |       |       |      |      |      |       |       |       |     |       |       |      |      |      |        |        |

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% / +22% bis -33% erlaubt.

| 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  |       |       |       |     |       |       |      |      |      |

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.

| 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    |
|------------------------|-------------|-----|-------|-------|------|------|------|-------------|-------|-------|-----|-------|-------|------|------|------|--------|
|                        | Voltage     | 1nF | 2.2nF | 4.7nF | 10nF | 22nF | 47nF | 100nF       | 220nF | 470nF | 1µF | 2.2µF | 4.7µF | 10µF | 22µF | 47µF | 100 µF |
| 0201 (0603)            | 4           |     |       |       |      |      |      |             |       |       |     |       |       |      |      |      |        |
|                        | 6,3         |     |       |       |      | X7T  | X7T  | X7T         |       |       |     |       |       |      |      |      |        |
|                        | 10          | X7R | X7R   | X7R   | X7R  |      |      |             |       |       |     |       |       |      |      |      |        |
|                        | 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   | X5R | X5R   |       |      |      |      |        |
|                        | 16          |     |       |       | X7R  | X7R  | X7R  | X7R         | X7R   | X5R   | 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           |     |       |       |      |      |      |             |       |       | X7R | X7R   | X5R   | X7T  |      |      |        |
|                        | 10          |     |       |       |      |      |      |             | X7R   | X7R   | X7R | X7T   | X5R   | X5R  |      |      |        |
|                        | 16          |     |       |       |      |      | X7R  | X7R         | X7R   | X7R   | X7R | X5R   | X5R   |      |      |      |        |
|                        | 25          |     |       |       |      | X7R  | X7R  | X7R         | X7R   | X7R   | X7R | X5R   |       |      |      |      |        |
|                        | 35          |     |       |       |      | X5R  | X7R  | X7R         | X7R   | X7R   | X7R |       |       |      |      |      |        |
|                        | 50          | X7R | X7R   | X7R   | X7R  | X7R  | X7R  | X7R         | X7R   | X7R   | X5R |       |       |      |      |      |        |
|                        | 100         | X7R | X7R   | X7R   | X7R  | X7R  | X7R  | X7R         | X7S   |       |     |       |       |      |      |      |        |
| 0805 (2012)            | 4,0         |     |       |       |      |      |      |             |       |       |     |       |       |      |      | X6S  | X5R    |
|                        | 6,3         |     |       |       |      |      |      |             |       |       |     |       | X7R   | X7R  | X5R  |      |        |
|                        | 10          |     |       |       |      |      |      |             |       |       | X7R | X7R   | X7R   | X7R  |      |      |        |
|                        | 16          |     |       |       |      |      |      |             | X7R   | X7R   | X7R | X7R   | X7R   | X7T  |      |      |        |
|                        | 25          |     |       |       |      |      |      | X7R         | X7R   | X7R   | X7R | X7R   | X5R   | X5R  |      |      |        |
|                        | 35          |     |       |       |      |      |      | X7R         | X7R   | X7R   | X7R | X5R   |       |      |      |      |        |
|                        | 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  | X7R  | coming soon |       |       |     |       |       |      |      |      |        |

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% / +22% bis -33% erlaubt.

| Case Size<br>inch (mm) | Capacitance | 102 | 222   | 472   | 103  | 223  | 473  | 104   | 224   | 474   | 105 | 225   | 475   | 106  | 226  | 476  | 107    |
|------------------------|-------------|-----|-------|-------|------|------|------|-------|-------|-------|-----|-------|-------|------|------|------|--------|
|                        | Voltage     | 1nF | 2.2nF | 4.7nF | 10nF | 22nF | 47nF | 100nF | 220nF | 470nF | 1µF | 2.2µF | 4.7µF | 10µF | 22µF | 47µF | 100 µF |
| 1206 (3216)            | 4           |     |       |       |      |      |      |       |       |       |     |       |       |      | X7R  | X7S  |        |
|                        | 6,3         |     |       |       |      |      |      |       |       |       |     |       |       | X7R  | X7R  | X5R  |        |
|                        | 10          |     |       |       |      |      |      |       |       |       |     |       | X7R   | X7R  | X5R  |      |        |
|                        | 16          |     |       |       |      |      |      |       |       |       |     | X7R   | X7R   | X7R  | X5R  |      |        |
|                        | 25          |     |       |       |      |      |      |       |       |       | X7R | X7R   | X7R   | X7R  |      |      |        |
|                        | 35          |     |       |       |      |      |      |       |       |       | X7R | X7R   | X7R   | X7R  | X5R  |      |        |
|                        | 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  | X7R  |       |       |       |     |       |       |      |      |      |        |
| 1210 (3225)            | 6,3         |     |       |       |      |      |      |       |       |       |     |       |       |      | X7R  | X7R  |        |
|                        | 10          |     |       |       |      |      |      |       |       |       |     |       |       |      | X7R  | X5R  |        |
|                        | 16          |     |       |       |      |      |      |       |       |       |     |       | X7R   | X7R  | X7R  | X5R  |        |
|                        | 25          |     |       |       |      |      |      |       |       |       |     |       | X7R   | X7R  | X7R  |      |        |
|                        | 35          |     |       |       |      |      |      |       |       |       |     | X7R   | X7R   | X7R  |      |      |        |
|                        | 50          |     |       |       |      |      |      |       |       |       | X7R | X7R   | X7R   | X7R  |      |      |        |
|                        | 100         |     |       |       |      |      |      | X7R   | X7R   | X7R   | X7R | X7S   |       |      |      |      |        |
|                        | 250         |     |       |       |      |      | X7R  | X7R   | X7R   |       |     |       |       |      |      |      |        |
|                        | 630         |     |       |       |      | X7R  | X7R  |       |       |       |     |       |       |      |      |      |        |
| 1812 (4532)            | 100         |     |       |       |      |      |      |       |       | X7R   | X7R | X7R   |       |      |      |      |        |
|                        | 250         |     |       |       |      |      |      | X7R   | X7R   | X7R   |     |       |       |      |      |      |        |
|                        | 630         |     |       |       |      |      | 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% / +22% bis -33% erlaubt.

| 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 | X7R   | X7S   |      |      |      |
|                        | 250         |     |       |       |      | X7R  | X7R  | X7R   | X7R   |       |     |       |       |      |      |      |
| 630                    |             |     |       |       | X7R  | X7R  |      |       |       |       |     |       |       |      |      |      |

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

| Case Size<br>inch (mm) | Capacitance | 102 | 222   | 472   | 103  | 223  | 473  | 104         | 224         | 474   | 105         | 225   | 475   | 106  | 226  | 476  | 107   |
|------------------------|-------------|-----|-------|-------|------|------|------|-------------|-------------|-------|-------------|-------|-------|------|------|------|-------|
|                        | Voltage     | 1nF | 2.2nF | 4.7nF | 10nF | 22nF | 47nF | 100nF       | 220nF       | 470nF | 1µF         | 2.2µF | 4.7µF | 10µF | 22µF | 47µF | 100µF |
| 0201 (0603)            | 4           |     |       |       |      |      |      | X7T         |             |       |             |       |       |      |      |      |       |
|                        | 6,3         |     |       |       |      | X7T  | X7T  | X7T         |             |       |             |       |       |      |      |      |       |
|                        | 10          | X7R | X7R   | X7R   | X7R  |      |      | coming soon |             |       |             |       |       |      |      |      |       |
|                        | 16          | X7R | X7R   |       |      |      |      |             |             |       |             |       |       |      |      |      |       |
|                        | 25          | X7R | X7R   |       |      |      |      |             |             |       |             |       |       |      |      |      |       |
|                        | 50          |     |       |       |      |      |      |             |             |       |             |       |       |      |      |      |       |
| 0402 (1005)            | 4           |     |       |       |      |      |      |             |             |       | X7T         |       |       |      |      |      |       |
|                        | 6,3         |     |       |       |      |      |      | X8L         | X7R         | X7T   | X7T         |       |       |      |      |      |       |
|                        | 10          | X7R | X7R   | X7R   | X7R  | X7R  | X8L  | X7R         | X7R         | X7T   | coming soon |       |       |      |      |      |       |
|                        | 16          | X7R | X7R   | X7R   | X7R  | X8L  | X7R  | X7R         | X7R         |       |             |       |       |      |      |      |       |
|                        | 25          | X7R | X7R   | X7R   | X8L  | X7R  | X7R  | X7R         | coming soon |       |             |       |       |      |      |      |       |
|                        | 50          | X8L | X8L   | X8L   | X7R  | X7R  | X7R  | X7R         |             |       |             |       |       |      |      |      |       |
|                        | 100         | X8L | X7R   | X7R   | X7R  |      |      |             |             |       |             |       |       |      |      |      |       |
| 0603 (1608)            | 4           |     |       |       |      |      |      | X8L         | X8L         |       | X7R         |       |       |      |      |      |       |
|                        | 6,3         |     |       |       |      | X7R  | X7R  | X7R         | X7R         | X7R   | X7R         |       |       |      |      |      |       |
|                        | 10          |     |       |       |      | X7R  | X7R  | X7R         | X7R         | X7R   | X7R         |       |       |      |      |      |       |
|                        | 16          |     |       |       |      | X7R  | X7R  | X7R         | X7R         | X7R   | X7R         |       |       |      |      |      |       |
|                        | 25          | X8L | X8L   | X8L   | X8L  | X8L  | X8L  | X8L         | X7S         |       |             |       |       |      |      |      |       |
|                        | 50          | X8L | X8L   | X8L   | X8L  | X7R  | X7R  | X7R         |             |       |             |       |       |      |      |      |       |
|                        | 100         | 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% / +22% bis -33% erlaubt.



| Case Size<br>inch (mm) | Capacitance | 102 | 222   | 472   | 103  | 223  | 473         | 104   | 224   | 474   | 105         | 225   | 475         | 106  | 226         | 476  | 107   |             |
|------------------------|-------------|-----|-------|-------|------|------|-------------|-------|-------|-------|-------------|-------|-------------|------|-------------|------|-------|-------------|
|                        | Voltage     | 1nF | 2.2nF | 4.7nF | 10nF | 22nF | 47nF        | 100nF | 220nF | 470nF | 1µF         | 2.2µF | 4.7µF       | 10µF | 22µF        | 47µF | 100µF |             |
| 0805 (2012)            | 4           |     |       |       |      |      |             |       |       |       |             |       |             |      |             |      |       | coming soon |
|                        | 6,3         |     |       |       |      |      |             |       |       |       |             |       |             | X7R  |             |      |       | coming soon |
|                        | 10          |     |       |       |      |      | X7R         | X7R   | X7R   | X8L   | X7R         | X7R   | X7R         | X7T  |             |      |       |             |
|                        | 16          |     |       |       |      |      | X7R         | X7R   | X7R   | X7R   | X7R         | X7R   | X7R         | X7T  |             |      |       |             |
|                        | 25          |     |       |       | X7R  | X7R  | X8L         | X8L   | X8L   | X7R   | X7R         | X7R   | coming soon |      |             |      |       |             |
|                        | 50          |     |       |       | X8L  | X8L  | X7R         | X7R   | X8L   | X7S   | X7R         |       |             |      |             |      |       |             |
|                        | 100         |     |       |       | X7R  | X7R  | X7R         | X7R   | X7R   | X7S   | X7S         |       |             |      |             |      |       |             |
|                        | 250         |     |       |       |      |      | coming soon |       |       |       |             |       |             |      |             |      |       |             |
| 1206 (3216)            | 4           |     |       |       |      |      |             |       |       |       |             |       |             | X7R  |             |      |       |             |
|                        | 6,3         |     |       |       |      |      |             |       | X7R   | X7R   | X7R         | X7R   | X7R         | X7R  |             |      |       |             |
|                        | 10          |     |       |       |      |      |             |       | X7R   | X7R   | X7R         | X7R   | X7R         | X7R  |             |      |       |             |
|                        | 16          |     |       |       |      |      |             | X7R   | X8L   | X8L   | X8L         | X7R   | X7R         |      |             |      |       |             |
|                        | 25          | X7R | X7R   | X7R   | X7R  |      |             | X7R   | X7R   | X7R   | X8L         | X7S   | X7S         |      |             |      |       |             |
|                        | 50          | X7R | X7R   | X7R   | X7R  |      |             | X7R   | X7R   | X7R   | X7R         | X7S   |             |      |             |      |       |             |
|                        | 100         | X7R | X7R   | X7R   | X7R  |      |             | X7R   | X7R   | X7R   | coming soon | X7S   |             |      |             |      |       |             |
|                        | 250         |     |       |       |      |      |             |       |       |       |             |       |             |      |             |      |       |             |
| 1210 (3225)            | 6,3         |     |       |       |      |      |             |       |       |       |             |       |             |      |             |      |       | coming soon |
|                        | 10          |     |       |       |      |      |             |       | X7R   | X7R   | X7R         | X7R   | X7R         | X7R  | coming soon |      |       |             |
|                        | 16          |     |       |       |      |      |             |       | X7R   | X7R   | X7R         | X7R   | X7R         | X7R  |             |      |       |             |
|                        | 25          |     |       |       |      |      |             |       | X7R   | X7R   | X7R         | X7R   | X7R         | X7R  |             |      |       |             |
|                        | 50          |     |       |       |      | X7R  | X7R         | X7R   | X7R   | X7R   | X7R         | X7R   | X7R         | X7S  |             |      |       |             |
|                        | 100         |     |       |       |      | X7R  | X7R         | X7R   | X7R   |       |             | X7R   | X7S         |      |             |      |       |             |
|                        | 250         |     |       |       |      |      |             |       |       |       |             |       |             |      |             |      |       |             |

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% / +22% bis -33% erlaubt.

| Case Size<br>inch (mm) | Capacitance | 102               | 222               | 472               | 103               | 223               | 473               | 104               | 224               | 474               | 105               | 225               | 475   | 106  |
|------------------------|-------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------|------|
|                        | Voltage     | 1nF               | 2.2nF             | 4.7nF             | 10nF              | 22nF              | 47nF              | 100nF             | 220nF             | 470nF             | 1µF               | 2.2µF             | 4.7µF | 10µF |
| 0402 (1005)            | 6,3         |                   |                   |                   |                   |                   | under development | X8L               |                   |                   |                   |                   |       |      |
|                        | 10          |                   |                   |                   |                   |                   | under development | X8L               |                   |                   |                   |                   |       |      |
|                        | 16          |                   |                   |                   | under development | X8L               |                   |                   |                   |                   |                   |                   |       |      |
|                        | 25          | under development | under development | under development | X8L               |                   |                   |                   |                   |                   |                   |                   |       |      |
|                        | 50          | X8L               | X8L               | X8L               |                   |                   |                   |                   |                   |                   |                   |                   |       |      |
| 0603 (1608)            | 6,3         |                   |                   |                   |                   |                   |                   |                   | X8L               | X8L               |                   |                   |       |      |
|                        | 10          |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |       |      |
|                        | 16          |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |       |      |
|                        | 25          | under development | under development | under development | under development | under development | under development | under development |                   |                   |                   |                   |       |      |
|                        | 50          | X8L               | X8L               | X8L               | X8L               | X8L               | X8L               | X8L               |                   |                   |                   |                   |       |      |
|                        | 100         | X8L               | X8L               | X8L               | X8L               |                   |                   |                   |                   |                   |                   |                   |       |      |
| 0805 (2012)            | 6,3         |                   |                   |                   |                   |                   |                   |                   |                   | under development |                   |                   |       |      |
|                        | 10          |                   |                   |                   |                   |                   |                   |                   |                   | X8L               |                   |                   |       |      |
|                        | 16          |                   |                   |                   |                   |                   | under development | under development | under development |                   |                   |                   |       |      |
|                        | 25          |                   |                   |                   | under development | under development | X8L               | X8L               | X8L               |                   |                   |                   |       |      |
|                        | 50          |                   |                   |                   | X8L               | X8L               |                   |                   |                   |                   |                   |                   |       |      |
| 1206 (3216)            | 25          |                   |                   |                   |                   |                   |                   |                   | X8L               | X8L               | X8L               |                   |       |      |
|                        | 50          |                   |                   |                   |                   |                   |                   |                   | under development | under development | under development |                   |       |      |
| 1210 (3225)            | 16          |                   |                   |                   |                   |                   |                   |                   | under development | under development | under development |                   |       |      |
|                        | 25          |                   |                   |                   |                   |                   |                   |                   | X8L               | X8L               | X8L               | under development |       |      |
|                        | 50          |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   | X8L               |       |      |

X=-55°C, 5=+85°C, 6=+105°C, 7=+125°C, 8=+150°C – R / S / L = über den spezifizierten Temperaturbereich ist eine Kapazitätsänderung von ±15% / ±22% / bis 125°C ±15% bzw. bis 150°C ±40 erlaubt.

| Case Size<br>inch (mm) | Voltage    | 6,3 V  | 10 V   | 16 V   | 25 V   | 35 V   | 50 V   | 100 V  | 200 V  | 250 V  | 500 V  | 630 V  | 1 KV   | 2 KV   | 3 KV   | 4 KV | 5 KV |  |
|------------------------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|------|--|
|                        | Dielectric |        |        |        |        |        |        |        |        |        |        |        |        |        |        |      |      |  |
| 0201 (0603)            | NP0        |        |        | 100 pF | 100 pF |        |        |        |        |        |        |        |        |        |        |      |      |  |
|                        | X5R        | 4.7 µF | 1 µF   |        |        |        |        |        |        |        |        |        |        |        |        |      |      |  |
|                        | X7R        | 100 nF |        | 3.9 nF | 2.2 nF |        |        | 10 nF  | 1 nF   |        |        |        |        |        |        |      |      |  |
| 0402 (1005)            | NP0        |        |        |        |        |        |        | 1 nF   |        |        |        |        |        |        |        |      |      |  |
|                        | X5R        | 22 µF  | 22 µF  | 4.7 µF | 2.2 µF | 2.2 µF |        |        |        |        |        |        |        |        |        |      |      |  |
|                        | X7R        | 1 µF   | 100 nF | 470 nF | 220 nF |        |        | 100 nF | 10 nF  |        |        | 100 pF |        |        |        |      |      |  |
| 0603 (1608)            | NP0        |        |        | 3.9 nF | 3.9 nF |        |        | 3.9 nF | 3.9 nF | 560 pF | 560 pF |        |        |        |        |      |      |  |
|                        | X5R        | 47 µF  | 22 µF  | 10 µF  | 10 µF  | 10 µF  | 2.2 µF |        |        |        |        |        |        |        |        |      |      |  |
|                        | X7R        | 4.7 µF | 4.7 µF | 1 µF   | 1 µF   |        |        | 1 µF   | 220 nF | 10 nF  | 47 nF  |        |        |        |        |      |      |  |
| 0805 (2012)            | NP0        | 22 nF  | 22 nF  | 22 nF  | 22 nF  | 22 nF  | 22 nF  | 12 nF  | 4.7 nF | 4.7 nF | 1.5 nF | 3.9 nF | 1.5 nF |        |        |      |      |  |
|                        | X5R        | 100 µF | 47 µF  | 22 µF  | 22 µF  | 10 µF  | 10 µF  |        |        |        |        |        |        |        |        |      |      |  |
|                        | X7R        | 10 µF  | 10 µF  | 10 µF  | 4.7 µF | 2.2 µF | 2.2 µF | 1 µF   | 100 nF | 100 nF | 22 nF  | 10 nF  | 2.2 nF |        |        |      |      |  |
| 1206 (3216)            | NP0        | 100 nF | 100nF  | 100 nF | 100 nF | 100 nF | 100 nF | 100 nF | 22 nF  | 22 nF  | 10 nF  | 10 nF  | 3.3 nF | 390 pF | 47 pF  |      |      |  |
|                        | X5R        | 100 µF | 47 µF  | 47 µF  | 22 µF  |        |        | 10 µF  | 2.2 µF |        |        |        |        |        |        |      |      |  |
|                        | X7R        | 22 µF  | 22 µF  | 10 µF  | 10 µF  | 10 µF  | 4.7 µF | 3.3 µF | 220 nF | 220 nF | 68 nF  | 47 nF  | 22 nF  | 4.7 nF | 1 nF   |      |      |  |
| 1210 (3225)            | NP0        |        |        | 100 nF | 100 nF |        |        | 100 nF | 100 nF | 47 nF  | 47 nF  | 33 nF  | 33 nF  | 15 nF  | 100 pF |      |      |  |
|                        | X5R        | 220 µF | 100 µF | 100 µF | 22 µF  |        |        | 10 µF  |        |        |        |        |        |        |        |      |      |  |
|                        | X7R        |        | 47 µF  | 22 µF  | 22 µF  | 10 µF  | 10 µF  | 4.7 µF | 680 nF | 560 nF | 120 nF | 100 nF | 47 nF  | 4.7 nF | 2.7 nF |      |      |  |

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

| Case Size<br>inch (mm) | Voltage    | 6,3 V | 10 V | 16 V   | 25 V   | 35 V | 50 V   | 100 V  | 200 V  | 250 V  | 500 V  | 630 V  | 1 KV   | 2 KV   | 3 KV   | 4 KV   | 5 KV   |
|------------------------|------------|-------|------|--------|--------|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                        | Dielectric |       |      |        |        |      |        |        |        |        |        |        |        |        |        |        |        |
| 1808 (4620)            | NP0        |       |      |        |        |      |        |        |        |        | 2.2 nF | 2.2 nF | 2.2 nF | 1 nF   | 1 nF   | 220 pF |        |
|                        | X5R        |       |      |        |        |      |        |        |        |        |        |        |        |        |        |        |        |
|                        | X7R        |       |      |        |        |      |        |        | 560 nF | 560 nF | 47 nF  | 47 nF  | 33 nF  | 10 nF  | 5.6 nF | 1 nF   | 1 nF   |
| 1812 (4632)            | NP0        |       |      | 220 nF | 220 nF |      | 220 nF | 100 nF | 100 nF | 100 nF | 33 nF  | 33 nF  | 2.2 nF | 1.5 nF | 1.2 nF |        |        |
|                        | X5R        |       |      |        |        |      |        |        |        |        |        |        |        |        |        |        |        |
|                        | X7R        |       |      |        | 10 µF  |      | 10 µF  | 2.2 µF | 1 µF   | 1 µF   | 470 nF | 220 nF | 100 nF | 33 nF  | 10 nF  |        |        |
| 1825 (4663)            | NP0        |       |      | 100 nF | 100 nF |      | 100 nF | 100nF  | 100 nF | 100 nF | 100 nF | 47 nF  | 12 nF  |        |        |        |        |
|                        | X5R        |       |      |        |        |      |        |        |        |        |        |        |        |        |        |        |        |
|                        | X7R        |       |      |        |        |      | 2.2 µF | 1 µF   | 1 µF   | 1 µF   | 470 nF | 330 nF | 150 nF | 22 nF  | 18 nF  |        |        |
| 2220 (5750)            | NP0        |       |      |        |        |      | 27 nF  | 27 nF  | 33 nF  | 33 nF  | 27 nF  | 22 nF  | 33 nF  | 6.8 nF | 2.2 nF |        | 150 pF |
|                        | X5R        |       |      |        |        |      |        |        |        |        |        |        |        |        |        |        |        |
|                        | X7R        |       |      |        | 10 µF  |      | 10 µF  | 10 µF  | 2.2 µF | 2.2 µF | 1 µF   | 470 nF | 220 nF | 39 nF  | 10 nF  | 10 nF  | 4.7 nF |
| 2225 (5763)            | NP0        |       |      |        |        |      | 82 nF  | 82 nF  | 33 nF  | 33 nF  | 15 nF  | 15 nF  | 15 nF  | 10 nF  | 3.3 nF |        | 56 pF  |
|                        | X5R        |       |      |        |        |      |        |        |        |        |        |        |        |        |        |        |        |
|                        | X7R        |       |      |        | 4.7 µF |      | 4.7 µF | 4.7 µF | 2.2 µF | 2.2 µF | 470 nF | 100 nF | 100 nF | 47 nF  | 22 nF  | 4.7 nF |        |

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**Standard Safety Certified Capacitors – Soft termination & Arc prevention verfügbar**

| Class       | Case Size<br>inch (mm) | Capacitance                    | 2R0                   | 5R0 | 6R8 | 8R2 | 100 | 120 | 150 | 180 | 220 | 330 | 360 | 390 | 470 | 560 | 680 | 820 |  |
|-------------|------------------------|--------------------------------|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
|             |                        | Temperature<br>Characteristics | Rated Voltage 250Vrms |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| X2          | 1808 (4620)            | NP0                            |                       |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|             | 1808 (4620)            | X7R                            |                       |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|             | 1812 (4632)            | X7R                            |                       |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| X1 / Y2     | 1808 (4620)            | NP0                            |                       |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|             | 1808 (4620)            | X7R                            |                       |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|             | 1812 (4632)            | NP0                            |                       |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|             | 1812 (4632)            | X7R                            |                       |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|             | 2208 (5720)            | NP0                            |                       |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|             | 2208 (5720)            | X7R                            |                       |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|             | 2211 (5728)            | NP0                            |                       |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|             | 2211 (5728)            | X7R                            |                       |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|             | 2220 (5750)            | NP0                            |                       |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| 2220 (5750) | X7R                    |                                |                       |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |

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**Standard Safety Certified Capacitors – Soft termination & Arc prevention verfügbar**

| Class       | Case Size<br>inch (mm) | Capacitance                 | 101                   | 121 | 131 | 151 | 181 | 221 | 271 | 331 | 391 | 471 | 561 | 681 | 821 | 102 | 122 | 152 | 182 | 222 | 272 | 332 | 472 | 103 |   |
|-------------|------------------------|-----------------------------|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|
|             |                        | Temperature Characteristics | Rated Voltage 250Vrms |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |
| X2          | 1808 (4620)            | NP0                         | ■                     | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■ |
|             | 1808 (4620)            | X7R                         | ■                     | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■ |
|             | 1812 (4632)            | X7R                         | ■                     | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■ |
| X1 / Y2     | 1808 (4620)            | NP0                         | ■                     | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■ |
|             | 1808 (4620)            | X7R                         | ■                     | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■ |
|             | 1812 (4632)            | NP0                         | ■                     | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■ |
|             | 1812 (4632)            | X7R                         | ■                     | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■ |
|             | 2208 (5720)            | NP0                         | ■                     | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■ |
|             | 2208 (5720)            | X7R                         | ■                     | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■ |
|             | 2211 (5728)            | NP0                         | ■                     | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■ |
|             | 2211 (5728)            | X7R                         | ■                     | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■ |
|             | 2220 (5750)            | NP0                         | ■                     | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■ |
| 2220 (5750) | X7R                    | ■                           | ■                     | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   |   |

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

**Standard Safety Certified Capacitors – Soft termination & Arc prevention verfügbar**

| Class | Case Size<br>inch (mm) | Capacitance                 | 101                   | 121 | 131 | 151 | 181 | 221 | 271 | 331 | 391 | 471 | 561 | 681 | 821 | 102 | 122 | 152 | 182 | 222 | 272 | 332 | 472 | 562 | 682 |  |
|-------|------------------------|-----------------------------|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
|       |                        | Temperature Characteristics | Rated Voltage 250Vrms |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| X2    | 2220 (5750)            | X7R                         |                       |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|       | 2825 (7364)            | X7R                         |                       |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |

| Class | Case Size<br>inch (mm) | Capacitance                 | 101                   | 121 | 131 | 151 | 181 | 221 | 271 | 331 | 391 | 471 | 561 | 681 | 821 | 102 | 122 | 152 | 182 | 222 | 272 | 332 | 472 | 562 | 682 |  |
|-------|------------------------|-----------------------------|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
|       |                        | Temperature Characteristics | Rated Voltage 350Vrms |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| X2    | 2220 (5750)            | X7R                         |                       |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |

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**Standard Safety Certified Capacitors – Soft termination & Arc prevention verfügbar**

| Class | Case Size<br>inch (mm) | Capacitance                 | 103                   | 123 | 153 | 183 | 223 | 273 | 333 | 393 | 473 | 563 | 683 | 823 | 104 | 124 | 224 |
|-------|------------------------|-----------------------------|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|       |                        | Temperature Characteristics | Rated Voltage 250Vrms |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| X2    | 2220 (5750)            | X7R                         | ■                     |     | ■   |     | ■   |     | ■   | ■   | ■   | ■   | ■   |     |     |     |     |
|       | 2825 (7364)            | X7R                         |                       |     |     |     |     |     |     |     | ■   | ■   |     |     |     |     |     |

  

| Class | Case Size<br>inch (mm) | Capacitance                 | 103                   | 123 | 153 | 183 | 223 | 273 | 333 | 393 | 473 | 563 | 683 | 823 | 104 | 124 | 224 |
|-------|------------------------|-----------------------------|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|       |                        | Temperature Characteristics | Rated Voltage 350Vrms |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| X2    | 2220 (5750)            | X7R                         | ■                     | ■   | ■   | ■   | ■   | ■   | ■   |     |     |     |     |     |     |     |     |

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



**Automotive Safety Certified Capacitors – AEC-Q200 qualified + soft termination**

| Class   | Case Size<br>inch (mm) | Capacitance                    | 360                   | 390 | 400 | 420 | 470 | 560 | 680 | 820 | 101 | 121 | 131 | 151 | 181 | 201 | 221 | 271 | 301 | 331 | 361 | 391 |  |
|---------|------------------------|--------------------------------|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
|         |                        | Temperature<br>Characteristics | Rated Voltage 250Vrms |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| X2      | 1808 (4620)            | X7R                            |                       |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| X1 / Y2 | 2208 (5820)            | X7R                            |                       |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| X1 / Y2 | 2220 (5850)            | X7R                            |                       |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |

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**Automotive Safety Certified Capacitors – AEC-Q200 qualified + soft termination**

| Class   | Case Size<br>inch (mm) | Capacitance                    | 431                   | 471 | 511 | 561 | 621 | 681 | 751 | 821 | 102 | 122 | 152 | 182 | 202 | 222 | 272 | 332 | 472 | 562 |  |
|---------|------------------------|--------------------------------|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
|         |                        | Temperature<br>Characteristics | Rated Voltage 250Vrms |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| X2      | 1808 (4620)            | X7R                            |                       |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| X1 / Y2 | 2208 (5820)            | X7R                            |                       |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| X1 / Y2 | 2220 (5850)            | X7R                            |                       |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |

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

| Case Size<br>inch (mm) | Capacitance | 151                  | 221 | 331 | 391 | 471 | 561 | 681 | 821 | 102 | 122 | 152 | 182 | 222 | 272 | 332 | 392 | 472 | 562 | 682 | 822 | 103 | 123 | 153 | 183 | 223 | 273 |
|------------------------|-------------|----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                        | Voltage     | Class 2 – MLCC – X7R |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0402 (1005)            | 50 V        |                      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0603 (1005)            | 16 V        |                      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|                        | 50 V        |                      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0805 (2012)            | 16 V        |                      |     | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   |
|                        | 25 V        |                      |     | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   |
|                        | 50 V        |                      |     | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   |
|                        | 100 V       |                      |     | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   |
|                        | 250 V       |                      |     | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   |
| 1206 (3216)            | 25 V        |                      |     | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   |
|                        | 50 V        |                      |     | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   |
|                        | 100 V       |                      |     | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   |
|                        | 250 V       |                      |     | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   |
|                        | 630 V       |                      |     |     |     |     |     |     |     |     | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   |     |     |     |     |     |
|                        | 1 KV        |                      |     |     |     |     |     |     |     |     | X   | X   | X   | X   | X   | X   | X   | X   |     |     |     |     |     |     |     |     |     |
| 1210 (3225)            | 25 V        |                      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|                        | 50 V        |                      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|                        | 1KV         |                      |     |     |     |     |     |     |     | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   |     |     |     |     |     |
|                        | 2 KV        |                      | C   | C   | C   | C   | A   | A   | A   | A   | A   | A   | A   | A   |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1812 (4632)            | 1 KV        |                      |     | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   |     |     |     |     |     |
|                        | 2 KV        |                      | A   | A   | A   | A   | A   | A   | A   | A   | A   | A   | A   | A   | A   | A   | A   | A   | A   | A   | A   | A   | A   |     |     |     |     |
| 2220 (5750)            | 2 KV        |                      |     |     |     |     |     |     |     | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   |     |
|                        | 3KV         | A                    | A   | A   | A   | A   | A   | A   | A   | A   | A   | A   | A   | A   | A   | A   | A   | A   | A   | A   | A   | A   |     |     |     |     |     |
| 2225 (5764)            | 630 V       |                      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

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

| Case Size<br>inch (mm) | Capacitance | 333                  | 393 | 473 | 563 | 683 | 823 | 104 | 124 | 154 | 184 | 224 | 274 | 334 | 394 | 474 | 564 | 684 | 824 | 105 | 155 | 225 | 335 | 475 | 685 | 106 |  |
|------------------------|-------------|----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
|                        | Voltage     | Class 2 – MLCC – X7R |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| 0402 (1005)            | 50 V        |                      |     |     |     |     |     | S   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| 0603 (1005)            | 16 V        |                      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|                        | 50 V        |                      |     |     |     |     |     | X   |     |     |     | X   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| 0805 (2012)            | 16 V        | X                    | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   |  |
|                        | 25 V        | X                    | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   |  |
|                        | 50 V        | X                    | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   |  |
|                        | 100 V       | X                    | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   |  |
|                        | 250 V       |                      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| 1206 (3216)            | 25 V        | X                    | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   |  |
|                        | 50 V        | X                    | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   |  |
|                        | 100 V       | X                    | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   |  |
|                        | 250 V       | X                    | X   | X   | X   | X   | X   | X   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|                        | 630 V       |                      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|                        | 1 KV        |                      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| 1210 (3225)            | 25 V        |                      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|                        | 50 V        |                      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|                        | 1KV         |                      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|                        | 2 KV        |                      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| 1812 (4632)            | 1 KV        |                      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|                        | 2 KV        |                      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| 2220 (5750)            | 2 KV        |                      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|                        | 3KV         |                      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| 2225 (5764)            | 630 V       |                      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |

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

| Case Size<br>inch (mm) | Capacitance | 9R1                  | 100 | 120 | 150 | 180 | 200 | 220 | 270 | 300 | 330 | 390 | 470 | 560 | 680 | 820 | 101 | 121 | 151 | 181 | 221 | 271 | 331 | 391 | 471 | 561 | 681 |   |
|------------------------|-------------|----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|
|                        | Voltage     | Class 1 – MLCC – NPO |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |
| 0805 (2012)            | 25 V        |                      | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | X   | X   | X   | X   | X   |   |
|                        | 50 V        |                      | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | X   | X   | X   | X   | X   |   |
|                        | 100 V       |                      | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | X   | X   | X   | X   | X   |   |
|                        | 250 V       |                      | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | X   | X   | X   | X   | X   |   |
| 1206 (3216)            | 25 V        |                      |     |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |   |
|                        | 50 V        |                      |     |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |   |
|                        | 100 V       |                      |     |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |   |
|                        | 250 V       |                      |     |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |   |
|                        | 500 V       |                      |     |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |   |
|                        | 630 V       |                      |     |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |   |
|                        | 1 KV        |                      |     |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |   |
| 1210 (3225)            | 1 KV        |                      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | X   | X   | X   |     |     |   |
| 1812 (4632)            | 1 KV        |                      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |
| 1825 (4663)            | 500 V       |                      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |
| 2220 (5750)            | 500 V       |                      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 0   | 0   | 0   | 0   | 0 |
|                        | 630 V       |                      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 0   | 0   | 0   | 0   | 0 |
|                        | 1 KV        |                      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 0   | 0   | 0   | 0   | 0 |
|                        | 2KV         |                      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 0   | 0   | 0   | 0 |

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

| Case Size<br>inch (mm) | Capacitance | 821                  | 102 | 122 | 152 | 182 | 222 | 272 | 332 | 392 | 472 | 562 | 682 | 822 | 103 | 123 | 153 | 183 | 223 | 333 | 393 | 473 | 563 | 683 | 823 | 104 |  |
|------------------------|-------------|----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
|                        | Voltage     | Class 1 – MLCC – NPO |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| 0805 (2012)            | 25 V        | X                    | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|                        | 50 V        | X                    | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|                        | 100 V       | X                    | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|                        | 250 V       | X                    | X   | X   | X   | X   | X   | X   | X   | X   | X   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| 1206 (3216)            | 25 V        | O                    | O   | O   | O   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   |     |     |     |     |  |
|                        | 50 V        | O                    | O   | O   | O   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   |     |     |     |     |  |
|                        | 100 V       | O                    | O   | O   | O   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   |     |     |     |     |     |     |     |     |     |     |     |  |
|                        | 250 V       | O                    | O   | O   | O   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   |     |     |     |     |     |     |     |     |     |     |     |  |
|                        | 500 V       | O                    | O   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|                        | 630 V       | O                    | O   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|                        | 1 KV        | O                    | O   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| 1210 (3225)            | 1 KV        |                      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| 1812 (4632)            | 1 KV        |                      | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| 1825 (4663)            | 500 V       |                      |     |     |     |     |     |     |     |     |     |     |     |     | X   | X   | X   | X   | X   | X   | X   | X   |     |     |     |     |  |
| 2220 (5750)            | 500 V       | O                    | O   | O   | O   | O   | O   | O   | O   | O   | O   | O   | O   | O   | O   | O   | O   | O   | O   | O   | O   | O   |     |     |     |     |  |
|                        | 630 V       | O                    | O   | O   | O   | O   | O   | O   | O   | O   | O   | O   | O   | O   | O   | O   | O   | O   | O   | O   | O   | O   |     |     |     |     |  |
|                        | 1 KV        | O                    | O   | O   | O   | O   | O   | O   | O   | O   | O   | O   | O   | O   | O   | O   | O   | O   | O   | O   | O   | O   |     |     |     |     |  |
|                        | 2KV         | O                    | O   | O   | O   | O   | O   | O   | O   | O   | O   | O   | O   | O   |     |     |     |     |     |     |     |     |     |     |     |     |  |

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| Case Size<br>inch (mm) | Capacitance | 9R1  | 100 | 120 | 150 | 180 | 220 | 330 | 360 | 390 | 400 | 420 | 470 | 560 | 680 | 820 | 101 | 121 | 131 | 151 | 181 | 201 | 221 | 271 | 301 | 331 | 361 |   |
|------------------------|-------------|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|
|                        | Voltage     | Safety Caps / Sicherheitskondensatoren – X7R |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |
| 1808 (4620)            | X2          |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | X   | X   |     | X   | X   |     | X   |   |
| 2208 (5820)            | X1 /Y2      |  |     |     |     |     |     |     | X   | X   |     | X   | X   | X   | X   | X   | X   | X   |     | X   | X   | X   | X   | X   | X   | X   | X   | X |
| 2220 (5850)            | X1 /Y2      |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     | X   | X   | X   | X   |     |     |     | X   | X   |     | X   |   |

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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

| Case Size<br>inch (mm) | Capacitance | 391  | 431 | 471 | 511 | 561 | 621 | 681 | 751 | 821 | 102 | 122 | 152 | 182 | 202 | 222 | 272 | 332 | 472 | 562 | 682 | 822 | 103 | 153 | 223 | 473 |  |
|------------------------|-------------|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
|                        | Voltage     | Safety Caps / Sicherheitskondensatoren – X7R |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| 1808 (4620)            | X2          | X  |     | X   |     | X   |     | X   |     | X   | X   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| 2208 (5820)            | X1 /Y2      | X  |     | X   |     | X   |     | X   |     | X   | X   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| 2220 (5850)            | X1 /Y2      | X  |     | X   |     | X   |     | X   |     | X   | X   |     | X   |     |     | X   | X   | X   | X   |     |     |     |     |     |     |     |  |

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# What's your mission?

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