

SURFACE MOUNT TANTALUM

SCT (Surface Mount) SERIES

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The SCT series is a molded solid tantalum chip capacitor designed to meet specifications worldwide. The SCT series includes EIA standard case sizes and ratings. These capacitors incorporate state-of-the-art construction allowing the use of modern high temperature soldering techniques.

FEATURES:

- Precision molded case with flat surface for vacuum pick-up
- Laser marking and bold videcon – readable polarity stripe
- Glue pad on underside for bonding to circuit board prior to soldering
- Encapsulate material satisfies the UL 94 VO flammability classification

RATINGS

Capacitance Range: 0.1 μ f to 150 μ f

Tolerance: $\pm 10\%$

Voltage Range: 6.3V to 50V

PERFORMANCE SPECIFICATIONS

Operating Temperature Range:

–55°C to +85°C (–67°F to +185°F)

Capacitance Tolerance (K): $\pm 10\%$

MECHANICAL SPECIFICATIONS

Lead Solderability:

Meets the requirements of MIL-STD 202, Method 208

Marking:

Consists of capacitance, DC voltage, and polarity.

Resistance to Board Cleaning:

The use of high acidity fluxes must be avoided. The encapsulation and termination materials are resistant to immersion in boiling solvents such as: Freon TMS and TMC, Trichloroethane, Methylene Chloride, Isopropyl alcohol (IPA), etc., up to +50°C. If ultrasonic cleaning is to be applied in the final wash stages the application time should be less than 5 minutes with a maximum power density of 9mW/cc to avoid damage to terminations.

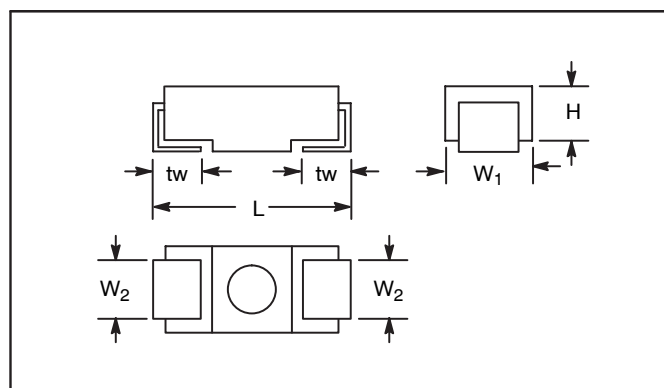
CAPACITANCE RANGE:

(Letter denotes case size)

| Rated Voltage (WV) | 6.3 | 10 | 16 | 20 | 25 | 35 | 50 |
|--------------------|-----|------|------|----|----|----|----|
| Surge Voltage (V) | 8 | 13 | 20 | 26 | 32 | 46 | 65 |
| Cap (μ f) | | | | | | | |
| 0.10 | | | | | | A | |
| 0.47 | | | | | A | | |
| 1.0 | | | A | | | B | C |
| 1.5 | | | A | | B | | |
| 2.2 | | A | A | B | | C | D |
| 3.3 | A | | B | | | | |
| 4.7 | | A, B | B | | C | D | |
| 6.8 | B | | C | C | | D | |
| 10.0 | | B, C | B, C | | D | D | |
| 15.0 | | C | C | D | D | | |
| 22.0 | | C | D | | D | H | |
| 33.0 | C | | D | | H | | |
| 47.0 | C | D | D | H | | | |
| 68.0 | D | | | H | | | |
| 100.0 | D | | H | | | | |
| 150.0 | D | H | | | | | |

SCT Series Dimensions: in (mm)

| Case Size | L ± 0.2 (± 0.008) | W ₁ ± 0.2 (± 0.008) | W ₂ ± 0.1 (± 0.004) | H ± 0.2 (± 0.008) | tw ± 0.3 (± 0.012) |
|-----------|--------------------------------|---|---|--------------------------------|---------------------------------|
| A | .126 (3.2) | .063 (1.6) | .047 (1.2) | .063 (1.6) | .031 (0.8) |
| B | .138 (3.5) | .110 (2.8) | .087 (2.2) | .075 (1.9) | .031 (0.8) |
| C | .236 (6.0) | .126 (3.2) | .087 (2.2) | .102 (2.6) | .051 (1.3) |
| D | .287 (7.3) | .169 (4.3) | .094 (2.4) | .114 (2.9) | .051 (1.3) |
| H | .287 (7.3) | .169 (4.3) | .094 (2.4) | .162 (4.1) | .051 (1.3) |



ORDERING INFORMATION

SCT A 10 4 K 35

Series _____

Case _____

Capacitance _____

Multiplier _____

Tolerance _____

Voltage _____