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: 0.1µf to 150µf
Tolerance: ±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): ±10%

MECHANICAL SPECIFICATIONS

Lead Solderability:
    Meets the requirements of MIL–STD 202, Method 208
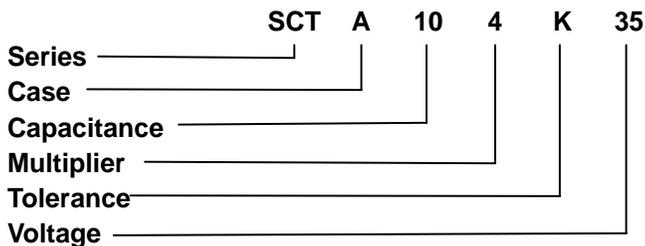**Marking:**
    Consists of capacitance, DC voltage, and polarity.
Resistance to Board Cleaning:
    The use of high acidity fluxes must be avoided. The encapsulation and termination materials are resistant to immersion in boiling solvents such as: Freon TMS and TMC, Trichloroethane, Methylene Chloride, 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.

ORDERING INFORMATION

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          SCT   A   10   4   K   35
Series ────────┘    │    │   │   │
Case ──────────────┘     │   │   │
Capacitance ────────────┘    │   │
Multiplier ──────────────────┘   │
Tolerance ───────────────────────┘
Voltage ─────────────────────────┘
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CAPACITANCE RANGE:
(Letter denotes case size)

Rated Voltage (WV)	6.3	10	16	20	25	35	50
Surge Voltage (V) / Cap (µf)	8	13	20	26	32	46	65
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	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)	W₁ ±0.2 (±0.008)	W₂ ±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)