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: 0.1μ f to 150μ 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): ±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 $+50^{\circ}$ 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

	SCT	Α	10	4	κ	35
Series ———				1		
Case						
Capacitance —						
Multiplier ——						
Tolerance						
Voltage ———						

C ΔΡΔ	CITAN	CF RA	NGE

(Letter denotes case size)

Rated Voltage (WV)	6.3	10	16	20	25	35	50
Surge Voltage	8	13	20	26	32	46	65
Cap (µf) (V)			20	20	02	40	
0.10						Α	
0.47					A		
1.0			A			В	С
1.5			A		В		
2.2		A	Α	В		С	D
3.3	A		В				
4.7		А, В	в		С	D	
6.8	в		С	С		D	
10.0		B, C	B, C		D	D	
15.0		C	С	D	D		
22.0		С	D		D	н	
33.0	С		D		н		
47.0	С	D	D	Н			
68.0	D			Н			
100.0	D		н				
150.0	D	н					

SCT Series Dimensions: in (mm)

Case Size	L ±0.2 (±0.008)	W ₁ ±0.2 (±0.008)	W₂ ±0.1 (±0.004)	H ±0.2 (±0.008)	tw ±0.3 (±0.012)
А	.126 (3.2)	.063 (1.6)	.047 (1.2)	.063 (1.6)	.031 (0.8)
В	.138 (3.5)	.110 (2.8)	.087 (2.2)	.075 (1.9)	.031 (0.8)
С	.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)
Н	.287 (7.3)	.169 (4.3)	.094 (2.4)	.162 (4.1)	.051 (1.3)



