# 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 µf to 150 µf

Tolerance: ±10%

Voltage Range: 6.3V to 50V

## PERFORMANCE SPECIFICATIONS

## **Operating Temperature Range:**

 $-55^{\circ}$ C to  $+85^{\circ}$ C ( $-67^{\circ}$ F to  $+185^{\circ}$ F) Capacitance Tolerance (K):  $\pm 10\%$ 

## **MECHANICAL SPECIFICATIONS**

#### Lead Solderability:

Meets the requirements of MIL-STD 202, Method 208

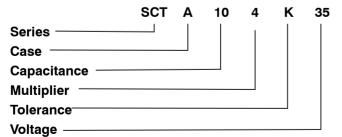
#### Marking

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.

## ORDERING INFORMATION



## **CAPACITANCE RANGE:**

(Letter denotes case size)

Rated Voltage (WV)	6.3	10	16	20	25	35	50
Surge Voltage Cap (μf) (V)	8	13	20	26	32	46	65
0.10						Α	
0.47					Α		
1.0			Α			В	С
1.5			Α		В		
2.2		Α	Α	В		С	D
3.3	Α		В				
4.7		A, B	В		С	D	
6.8	В		С	С		D	
10.0		B, C	B, C		D	D	
15.0		С	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	<b>L</b> ±0.2 (±0.008)	<b>W</b> <sub>1</sub> ±0.2 (±0.008)	<b>W</b> <sub>2</sub> ±0.1 (±0.004)	<b>H</b> ±0.2 (±0.008)	<b>tw</b> ±0.3 (±0.012)
Α	.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)



