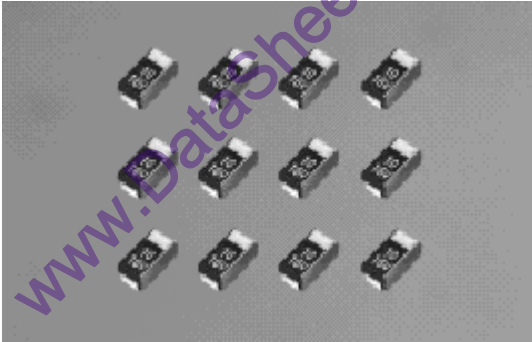


**SCN Series**

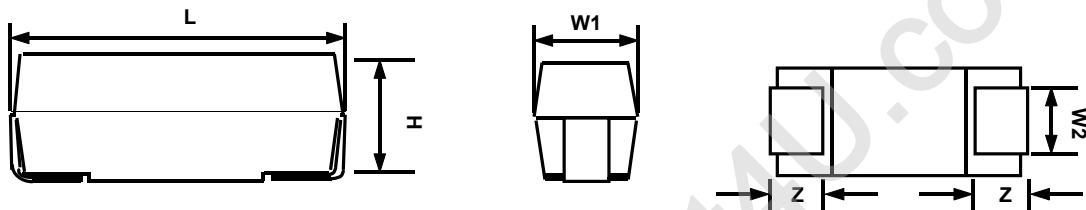
**FEATURES**

The product is a standard type that has been most widely used among tantalum chip capacitors.

- \* Molded Case available in four case codes.
- \* Compatible with automatic pick and place equipment.
- \* Meets or Exceeds EIA standard 535BAAC .



**Drawing and Dimension**



Case Code	EIA Code	L	W <sub>1</sub>	W <sub>2</sub>	H	Z
<b>A</b>	3216	3.2 ± 0.2	1.6 ± 0.2	1.2 ± 0.1	1.6 ± 0.2	0.8 ± 0.3
<b>B</b>	3528	3.5 ± 0.2	2.8 ± 0.2	2.2 ± 0.1	1.9 ± 0.2	0.8 ± 0.3
<b>C</b>	6032	6.0 ± 0.3	3.2 ± 0.3	2.2 ± 0.1	2.5 ± 0.3	1.3 ± 0.3
<b>D</b>	7343	7.3 ± 0.3	4.3 ± 0.3	2.4 ± 0.1	2.8 ± 0.3	1.3 ± 0.3

**SPECIFICATIONS**

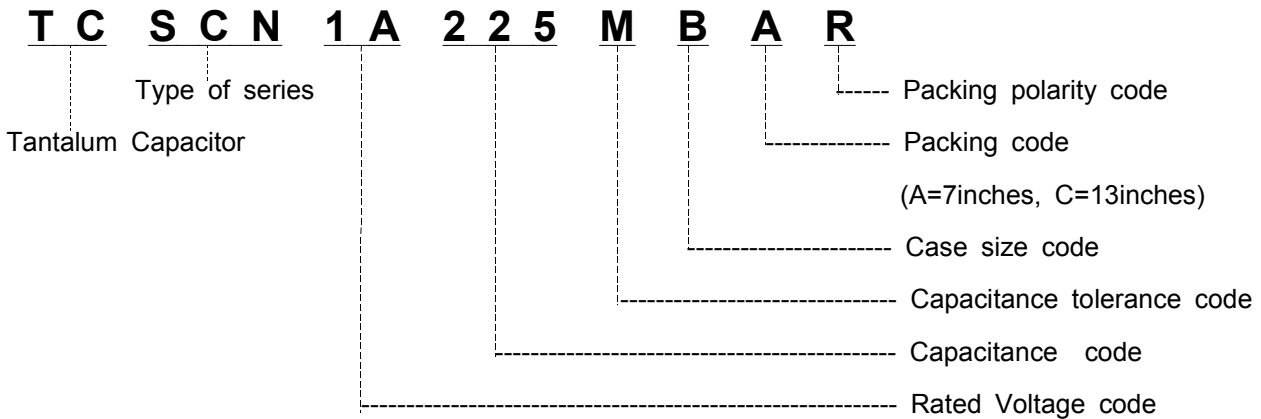
<b>Capacitance</b>	<b>Range</b>	1.0 $\mu$ F to 68 $\mu$ F						
	<b>Tolerance</b>	$\pm$ 20%(M), $\pm$ 10%(K)						
<b>Dissipation Factor (Tan<math>\delta</math>)</b>	<b>C <math>\leq</math> 1.0<math>\mu</math>F</b>	D.F $\leq$ 4.0%						
	<b>1.5<math>\mu</math>F <math>\leq</math> C <math>\leq</math> 6.8<math>\mu</math>F</b>	D.F $\leq$ 6.0%						
	<b>10<math>\mu</math>F <math>\leq</math> C <math>\leq</math> 68<math>\mu</math>F</b>	D.F $\leq$ 8.0%						
	<b>C <math>\geq</math> 100<math>\mu</math>F</b>	D.F $\leq$ 10.0%						
<b>Leakage Current</b>		between 0.01CV and 0.5 $\mu$ A, whichever is larger						
<b>Rated Voltage (V<sub>R</sub>)</b>		<b>4.0</b>	<b>6.3</b>	<b>10</b>	<b>16</b>	<b>20</b>	<b>25</b>	<b>35</b>
<b>Operating Voltage (V)</b>	<b>T <math>\leq</math> 85<math>^{\circ}</math>C</b>	4.0	6.3	10.0	16.0	20.0	25.0	35.0
	<b>85<math>^{\circ}</math>C <math>&lt;</math> T <math>\leq</math> 125<math>^{\circ}</math>C</b>	2.5	4.0	6.3	10.0	13.0	16.0	22.0
<b>Surge Voltage (V)</b>	<b>T <math>\leq</math> 85<math>^{\circ}</math>C</b>	5.2	8.0	13.0	20.0	25.0	32.0	44.0
	<b>85<math>^{\circ}</math>C <math>&lt;</math> T <math>\leq</math> 125<math>^{\circ}</math>C</b>	3.2	5.0	8.0	13.0	16.0	20.0	28.0
<b>Operating Temperature</b>		-55 $^{\circ}$ C to 125 $^{\circ}$ C						

(SCN Series) Standard value and case size.

W.V		4V (0G)	6.3V (0J)	10V (1A)	16V (1C)	20V (1D)	25V (1E)	35V (1V)
0.15	154							A
0.22	224							A
0.33	334						A	A
0.47	474				A	A	A	B
0.68	684				A	A		
1.0	105			A	A			B
1.5	155		A	A			B	
2.2	225	A	A			B		C
3.3	335	A			B	C	C	C
4.7	475			B	C	C	C	D
6.8	685		B	C	C	C	D	D
10	106	B	C	C	C	D	D	
15	156	C	C	C	D	D		
22	226	C	C	D	D			
33	336	C	D	D				
47	476	D	D					
68	686	D						

## ORDERING INFORMATION

Product symbol : (Example) SCN Series, B Case ,10V 2.2 $\mu$ F  $\pm$  20%





ELECTRO-MECHANICS

# Solid Tantalum Chip Capacitor.

SCN(Standard Tantalum Chip Capacitors)

## SCN Rating & Part Number Reference

Part Number	Case Size	Capacitance $\mu\text{F}$	DC Leakage $\mu\text{A}$ @+25°C Max	DF % @+25°C 120Hz Max	ESR $\Omega$ @+25°C Max
4 Volt Rating @+85°C (2.5Volt Rating @+125°C)					
TCSCN0G225*AAR	A	2.2	0.5	6	10.0
TCSCN0G335*AAR	A	3.3	0.5	6	8.0
TCSCN0G106*BAR	B	10	0.5	6	3.5
TCSCN0G156*CAR	C	15	0.6	6	2.5
TCSCN0G226*CAR	C	22	0.9	6	1.8
TCSCN0G336*CAR	C	33	1.3	6	1.8
TCSCN0G476*DAR	D	47	1.9	6	1.0
TCSCN0G686*DAR	D	68	2.7	6	0.8
6.3 Volt Rating @+85°C (4Volt Rating @+125°C)					
TCSCN0J155*AAR	A	1.5	0.5	6	10.0
TCSCN0J225*AAR	A	2.2	0.5	6	8.0
TCSCN0J685*BAR	B	6.8	0.5	6	3.5
TCSCN0J106*CAR	C	10	0.6	6	3.0
TCSCN0J156*CAR	C	15	0.9	6	1.8
TCSCN0J226*CAR	C	22	1.4	6	1.8
TCSCN0J336*DAR	D	33	2.0	6	1.5
TCSCN0J476*DAR	D	47	3.0	6	0.8
10 Volt Rating @+85°C (6.3Volt Rating @+125°C)					
TCSCN1A105*AAR	A	1.0	0.5	4	12.0
TCSCN1A155*AAR	A	1.5	0.5	6	8.0
TCSCN1A475*BAR	B	4.7	0.5	6	3.5
TCSCN1A685*CAR	C	6.8	0.7	6	3.0
TCSCN1A106*CAR	C	10	1.0	6	1.8
TCSCN1A156*CAR	C	15	1.5	6	1.8
TCSCN1A226*DAR	D	22	2.2	6	1.2
TCSCN1A336*DAR	D	33	3.3	6	0.8
16 Volt Rating @+85°C (10Volt Rating @+125°C)					
TCSCN1C684*AAR	A	0.68	0.5	4	12.0
TCSCN1C105*AAR	A	1.0	0.5	4	10.0
TCSCN1C335*BAR	B	3.3	0.5	6	3.5
TCSCN1C475*CAR	C	4.7	0.7	6	3.0
TCSCN1C685*CAR	C	6.8	1.0	6	1.9
TCSCN1C106*CAR	C	10	1.6	6	1.8
TCSCN1C156*DAR	D	15	2.4	6	1.2
TCSCN1C226*DAR	D	22	3.5	6	0.8

Part Number	Case Size	Capacitance $\mu\text{F}$	DC Leakage $\mu\text{A}$ @+25°C Max	DF % @+25°C 120Hz Max	ESR $\Omega$ @+25°C Max
20 Volt Rating @+85°C (13 Volt Rating @+125°C)					
TCSCN1D474*AAR	A	0.47	0.5	4	15.0
TCSCN1D684*AAR	A	0.68	0.5	4	12.0
TCSCN1D225*BAR	B	2.2	0.5	6	3.5
TCSCN1D335*CAR	C	3.3	0.7	6	3.5
TCSCN1D475*CAR	C	4.7	1.0	6	2.4
TCSCN1D685*CAR	C	6.8	1.4	6	1.9
TCSCN1D106*DAR	D	10	2.0	6	1.3
TCSCN1D156*DAR	D	15	3.0	6	1.0
25 Volt Rating @ +85°C (16 Volt Rating @ +125°C)					
TCSCN1E334*AAR	A	0.33	0.5	4	15.0
TCSCN1E474*AAR	A	0.47	0.5	4	14.0
TCSCN1E155*BAR	B	1.5	0.5	6	5.0
TCSCN1E335*CAR	C	3.3	0.8	6	2.5
TCSCN1E475*CAR	C	4.7	1.2	6	2.4
TCSCN1E685*DAR	D	6.8	1.7	6	1.4
TCSCN1E106*DAR	D	10	2.5	6	1.0
35 Volt Rating @ +85°C (22 Volt Rating @ +125°C)					
TCSCN1V154*AAR	A	0.15	0.5	4	19.0
TCSCN1V224*AAR	A	0.22	0.5	4	18.0
TCSCN1V334*AAR	A	0.33	0.5	4	15.0
TCSCN1V474*BAR	B	0.47	0.5	4	8.0
TCSCN1V105*BAR	B	1.0	0.5	4	5.0
TCSCN1V225*CAR	C	2.2	0.7	6	3.5
TCSCN1V335*CAR	C	3.3	1.2	6	2.5
TCSCN1V475*DAR	D	4.7	1.6	6	1.5
TCSCN1V685*DAR	D	6.8	2.3	6	1.3

All technical data relates to an ambient temperature of +25°C.  
Capacitance and DF are measured at 120Hz, 0.5v RMS with a maximum DC bias of 2.0 volts.

DCL is measured at rated voltage after 5 minutes.

\*Insert K for  $\pm 10\%$  tolerance and M for  $\pm 20\%$ .