

Series CTS (SCA)



Metal Case Tantalum Capacitors Axial Type-Solid Electrolytic

Features:

- Solid electrolytic.
- Polar type.
- Hermetically sealed metal cases.
- Axial leads.
- General purpose-extended range.



SPECIFICATION:

Item	Performance Characteristics																	
Operating Temperature Range	-55 to + 125°C																	
Rated Working Voltage Range	6.3 to 35 V DC																	
Nominal Capacitance Range	1.0 to 330 μF																	
Capacitance Tolerance	±20% (120Hz, +20°C) ± 10%																	
Leakage Current	Not more than 0.01CV [μA] or 0.5μA whichever is greater																	
tan δ (120Hz, +20°C)	0.04 max. for ≤ 4.7μF																	
	0.06 max. for 6.8~68μF																	
	0.08 max. for 100~330 μF																	
Characteristics at High and Low Temperature	-55°C	Capacitance change	±10% of initial measured value at +20°C															
	+125°C	Leakage current	≤ 0.1 CV or 5 [μF] whichever is greater															
		Capacitance change	±15% of initial measured value at +20°C															
Moisture Resistance	Test conditions																	
	Relative humidity : 90 to 95% without load Ambient temperature : +60°C Duration : 1000 hours Post test requirements at + 20°C Leakage current : ≤ 0.1 CV or 5[μA], whichever is greater Capacitance change : ± 10% of initial measured value tan δ : ≤ 200% of initial specified value																	
Endurance	Test conditions																	
	<table border="1"> <thead> <tr> <th>Item \ Conditions</th> <th>Derating</th> <th>Rating</th> </tr> </thead> <tbody> <tr> <td>Duration</td> <td>2000 hours</td> <td>2000 hours</td> </tr> <tr> <td>Ambient temperature</td> <td>+ 125°C</td> <td>+ 85°C</td> </tr> <tr> <td>Applied voltage</td> <td>Derated working voltage</td> <td>Rated working voltage</td> </tr> <tr> <td>Source impedance</td> <td>1Ω/V</td> <td>1Ω/V</td> </tr> </tbody> </table>			Item \ Conditions	Derating	Rating	Duration	2000 hours	2000 hours	Ambient temperature	+ 125°C	+ 85°C	Applied voltage	Derated working voltage	Rated working voltage	Source impedance	1Ω/V	1Ω/V
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Shelf Life	Test conditions																	
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	Ambient temperature : +125°C																	
	Applied voltage : (none)																	
			Post test requirements at +20°C Same litits of "Endurance".															

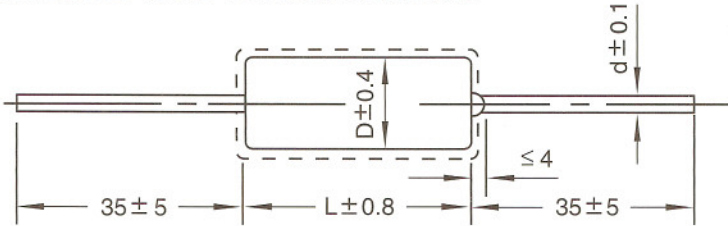
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Metal Case Tantalum Capacitors Explanation of Part Numbers

CTS
Series Code
1 V
Rated Voltage
3 3 5
Nominal Capacitance
M
Capacitance Tolerance
B
Case Size
B
Packing

TANTALUM CAPACITOR METAL CASE OUTLINE DRAWING



Dimensions Millimeters mm

Case Size	A	B	C	D
D x L	3.2 x 8	5 x 12	6 x 14	8 x 14
d ± 0.1	0.4	0.6	0.6	0.8

Rated Voltage, Capacitance of Capacitors.

Rated Voltage (V)	6.3	10	16	25	35
Code	0J	1A	1C	1E	1V
Capacitance (µF)	Case Size				
1.0 (105)					A
1.5 (155)					A
2.2 (225)			A	A	A
3.3 (335)			A	A	B
4.7 (475)		A	A	B	B
6.8 (685)		A	A	B	B
10 (106)	A	A	B	B	B
15 (156)	A	B	B	B	B
22 (226)	B	B	B	B	C
33 (336)	B	B	B	C	C
47 (476)	B	B	B	C	
68 (686)	B	B	C	D	
100 (107)	B	C	C	D	
150 (157)	C	C	D		
220 (227)	C	D			
330 (337)	D				