

## Series CTS

## Metal Case Tantalum Capacitors



### FEATURES :

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

勝特力材料 886-3-5753170  
勝特力电子(上海) 86-21-54151736  
勝特力电子(深圳) 86-755-83298787  
[Http://www.100y.com.tw](http://www.100y.com.tw)

### SPECIFICATION :

Item	Performance Characteristics		
Operating Temperature Range	-55 to +125°C		
Rated Working voltage Range	6.3 to 35V DC		
Nominal Capacitance Range	1.0 to 330 $\mu$ F		
Capacitance Tolerance	$\pm$ 20% (120Hz, +20°C) $\pm$ 10%		
Leakage Current	Not more than 0.01 CV [ $\mu$ A] or 0.5 $\mu$ A whichever is greater		
Tan $\delta$  (120Hz, +20°C)	0.04 max. for $\leq$ 4.7 $\mu$ F		
	0.06 max. for 6.8 to 68 $\mu$ F		
	0.08 max. for 100 to 330 $\mu$ F		
Characteristics at High and Low Temperature	-55°C	Capacitance change	$\pm$ 10% of initial measured value at +20°C
	+125°C	Leakage current	$\leq$ 0.1CV or 5 $\mu$ F] whichever is greater
		Capacitance change	$\pm$ 15% of initial measured value at +20°C

Moisture Resistance	<p>Test conditions</p> <p>Relative humidity : 90 to 95% without load</p> <p>Ambient temperature : +60°C</p> <p>Duration : 1000 hours</p> <p>Post test requirements at +20°C</p> <p>Leakage current : ≤0.1CV or 5[μF] whichever is greater</p> <p>Capacitance change : ±10% of initial measured value</p> <p>Tan δ : ≤200% of initial specified value</p>																												
Endurance	<p>Test conditions</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%;">Conditions</th> <th style="width: 30%;">Derating</th> <th style="width: 30%;">Rating</th> </tr> </thead> <tbody> <tr> <td>Item</td> <td></td> <td></td> </tr> <tr> <td>Duration</td> <td style="text-align: center;">2000hours</td> <td style="text-align: center;">2000hours</td> </tr> <tr> <td>Ambient temperature</td> <td style="text-align: center;">+125°C</td> <td style="text-align: center;">+85°C</td> </tr> <tr> <td>Applied voltage</td> <td style="text-align: center;">Derating Working voltage</td> <td style="text-align: center;">Rated Working voltage</td> </tr> <tr> <td>Source impedance</td> <td style="text-align: center;">1Ω/V</td> <td style="text-align: center;">1Ω/V</td> </tr> <tr> <td>Derating voltage+125°C</td> <td></td> <td></td> </tr> <tr> <td>Working voltage [V] DC</td> <td style="text-align: center;">6.3</td> <td style="text-align: center;">10    16    25    35</td> </tr> <tr> <td>Derating voltage [V] DC</td> <td style="text-align: center;">4</td> <td style="text-align: center;">6.3    10    16    22</td> </tr> </tbody> </table> <p>Post test requirements at +20°C</p> <p>Leakage current : ≤125% of initial specified value</p> <p>Capacitance change : ±10% of initial measured value</p> <p>Tan δ : ≤initial specified value</p> <p>Impedance : ≤200% of initial specified value</p>		Conditions	Derating	Rating	Item			Duration	2000hours	2000hours	Ambient temperature	+125°C	+85°C	Applied voltage	Derating Working voltage	Rated Working voltage	Source impedance	1Ω/V	1Ω/V	Derating voltage+125°C			Working voltage [V] DC	6.3	10    16    25    35	Derating voltage [V] DC	4	6.3    10    16    22
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Shelf Life	<p>Test conditions</p> <p>Duration : 2000 hours</p> <p>Ambient temperature : +125</p> <p>Applied voltage : (none)</p>	<p>Post test requirements at +20°C</p> <p>Same limits for “Endurance”</p>																											

### Metal Case Tantalum Capacitors Explanation of Part Numbers

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**CTS**  
 Series Code

**1 V**  
 Rated Voltage

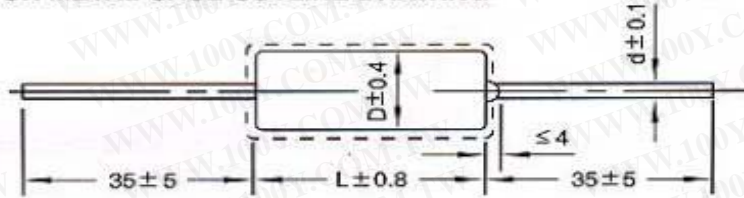
**335**  
 Nominal Capacitance

**M**  
 Capacitance  
 Tolerance

**B**  
 Case  
 Size

**B**  
 Packing

**TANTALUM CAPACITOR METAL CASE OUTLINE DRAWING**



**Dimensions Millimeters mm**

Case Size	A	B	C	D
D×L	3.2×8	5×12	6×14	8×14
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				