

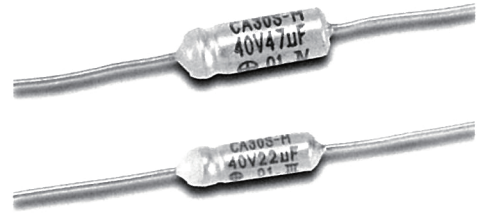
Series CTW (CA30S)



Metal Case Tantalum Capacitors Axial Type Wet Electrolytic

FEATURES:

- Wet 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 125 V DC										
Nominal Capacitance Range	1.0 to 1000 µF										
Capacitance Tolerance	±20% (120Hz, +20°C) ± 10%										
Leakage Current	Not more than 0.001CV [µA] or 1.0µA whichever is greater										
tan δ (120Hz, +20°C)	See Next Page										
Characteristics at High and Low Temperature	-55°C.	Capacitance change	±10% of initial measured value at +20°C								
	+125°C	Leakage current	≤ 0.01 CV or 10 [µA] 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 : ≤ 0.01 CV or 10[µF], whichever is greater Capacitance change : ± 10% of initial measured value tan δ : ≤ 200% of initial specified value										
Endurance	Test conditions										
	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								
	Derating voltage + 125°C										
	Working voltage [V] DC	6.3	10	16	25	32	40	63	75	100	125
	Derating voltage [V] DC	4	6.3	10	16	20	25	40	50	63	80
	Post test requirements at +20°C										
Leakage current	: ≤ 125% of initial specified value										
Capacitance change	: ± 10% of initial measured value										
tan δ	: ≤ Initial specified value										
Impedance	: ≤ 200% of initial specified value										
Shelf Life	Test conditions		Post test requirements at +20°C								
	Duration	: 2000 hours	Same litits for "Endurance".								
	Ambient temperature	: +125°C									
	Applied voltage	: (none)									

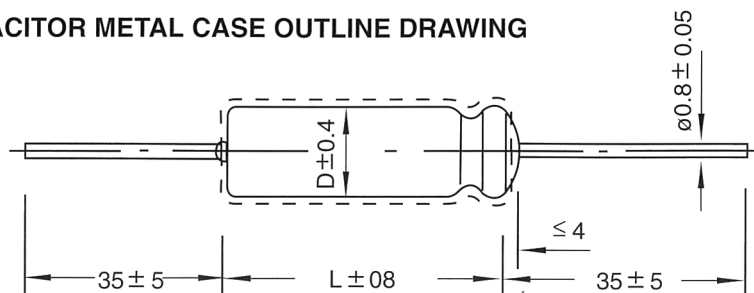
Series CTW (CA30S)



Metal Case Tantalum Capacitors Explanation of Part Numbers

CTW 1 J 3 3 5 M A B
 Series Code Rated Voltage Nominal Capacitance Capacitance Tolerance Case Size Packing

TANTALUM CAPACITOR METAL CASE OUTLINE DRAWING



Dimensions Millimeters mm

Case Size	A	B	C	D	E
D x L	4 x 12	5 x 14	6 x 16	8 x 16	8 x 22
d ± 0.05	0.8	0.8	0.8	0.8	0.8

Rated Voltage, Capacitance of Capacitors.

Rated Voltage (V)	10	16	25	40	63	100	125
Code	1A	1C	1E	1G	1J	2A	2E
Capacitance (µF)	Case Size						
1.0 (105)						A	A
1.5 (155)						A	A
2.2 (225)						A	A
3.3 (335)						A	B
4.7 (475)						B	B
6.8 (685)						B	C
10 (106)					A	B	C
15 (156)					B	C	C
22 (226)					B	C	D
33 (336)				B	C	D	
47 (476)				B	D	D	
68 (686)			B	C	D		
100 (107)			B	C	E		
150 (157)		B	C	D	E		
220 (227)	B	C	C	D	E		
330 (337)	C	D	D				
470 (477)	D	D					
680 (687)							
1000 (108)							

Rated voltage UR (V)	10	16	25	40	63	100	125
Rated capacitor (µF)	tan δ (120 Hz) %						
1.0-4.7						6	6
6.8						8	8
10					8	10	15
15					10	18	15
22					18	15	20
33				12	12	25	
47				25	25	28	
68			30	20	25		
100			25	35	20		
150		35	50	35	28		
220	45	60	50	30			
330	70	70	40				
470	75	50					
680							
1000							