

# TAS Series (SCA)

## Tantalum Solid Electrolytic Capacitors Axial Type (Metal case)



### 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 470 µF										
Capacitance Tolerance	±20% (120Hz, +20°C) ± 10%										
Leakage Current	Not more than 0.01CV [µA] or 0.5µA whichever is greater										
Characteristics at High and LOW Temperature	Capacitance C <sub>r</sub> (µF)	Capacitance Change(%)			DF Max.(%)				DCL Max.(µF)		
		-55°C	+85°C	+125°C	-50°C	+20°C	+85°C	+125°C	+20°C	+85°C	+125°C
	≤1.0	±8	±8	±12	6	4	6	6	1.50.02 C <sub>r</sub> U <sub>r</sub> (or) 1µF (whichever is greater)	10I <sub>0</sub>	12.5I <sub>0</sub> (1)
	1.5~68				8	6	8	8			
	100~680				12	10	12	12			
470	15				12	15	15				
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										
	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	35					
Derating voltage [V] DC		4	6.3	10	16	22					
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										
	Duration	: 2000 hours					Post test requirements at +20°C				
	Ambient temperature	: +125°C					Same limits of "Endurance".				
	Applied voltage	: (none)									

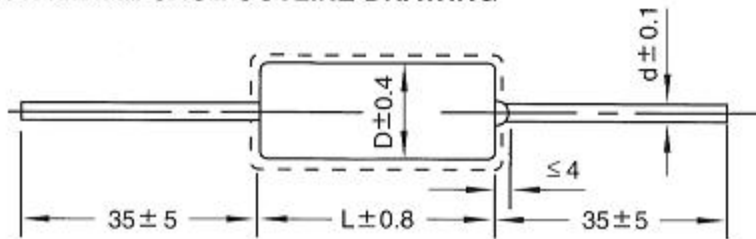
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Tantalum Solid Electrolytic Capacitors Axial Type (Metal case)  
 Explanation of part Numbers

TAS  
Series Code
A  
Case Size
335  
Nominal Capacitance
M  
Capacitance Tolerance
016  
Rated Voltage
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	D			
470 (477)	D				