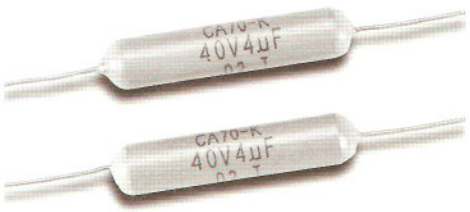
Series CTN (CA70)

Metal Case Tantalum Capacitors
Axial Type-Nonpolar Solid Electrolytic

CTN(CA70)

FEatures:

- Solid electrolytic.
- Nonpolar Type.
- Hermetically sealed metal cases.
- Axial leads.
- General purpose-extended range.



SPECIFICATION:

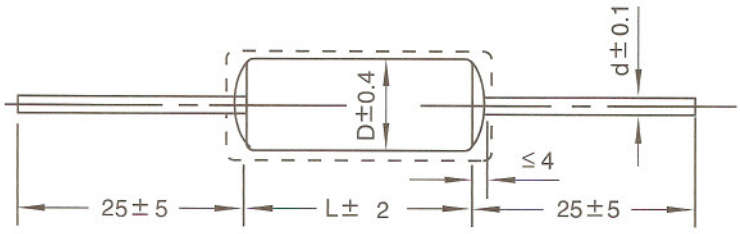
Item	Performance Characteristics
Operating Temperature Range	-55 to + 125˚C
Rated Working Voltage Range	6.3 to 35 V DC
Nominal Capacitance Range	0.22 to 100 μF
Capacitance Tolerance	±20% (120Hz, +20˚C) ± 10%
Leakage Current	Not more than 0.01CV [μA] or 0.5μA whichever is greater
tan δ (120Hz, +20˚C)	0.04 max. for ≤ 0.47μF 0.06 max. for 0.68~33μF 0.08 max. for ≥ 47 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 +125˚C: Capactiance 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 inital specified value
Endurance	Test conditions Conditions / Item: Derating: 2000 hours, + 125˚C, Derated working voltage, 1Ω/V; Rating: 2000 hours, + 85˚C, Rated working voltage, 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 Ambient temperature : +125˚C Applied voltage : (none) Post test requirements at +20˚C Same litits of "Endurance".

Series CTN (CA70)

Metal Case Tantalum Capacitors
Explantion of Part Numbers

C T N	1 V	3 3 5	M	B	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
D x L	4 x 16	6 x 25	7 x 30	9 x 30
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				
0.22 (224)					A
0.33 (334)					A
0.47 (474)					A
0.68 (684)					A
1.0 (105)			A	A	A
1.5 (155)			A	A	A
2.2 (225)		A	A	B	A
3.3 (335)		A	A	B	B
4.7 (475)	A	A	B	B	B
6.8 (685)	A	B	B	B	C
10 (106)	B	B	B	B	C
15 (156)	B	B	B	C	
22 (226)	B	B	B	C	
33 (336)	B	B	C	D	
47 (476)	B	C	C		
68 (686)	C	C	D		
100 (107)	C				