

RADIAL TANTALUM CAPACITOR

CA42

FEATURES

- CA42 Series are epoxy-coated solid electrolyte tantalum capacitors are encapsulated with flame-retardant yellow epoxy powder, marked with laser.
- CA42 meets and exceeds the requirements of IEC Specification 384-15-3, IECQ Specification QC300201/US0003 and Technical Specification SJ/T 10856-96.
- Highly used in military and civil applications, such as TV sets, camcorders, computers, program-controlled electronic telephones switching systems, telephones, instruments and meters.
- RoHS Compliance & Lead Free Terminations.

SPECIFICATIONS

Rated Voltage	D.C. 4V ~ 50V
Operating Temperature Range	-55°C to +125°C (>85°C with rated voltage derating.)
Capacitance Range	0.047 μF to 680 μF
Capacitance Tolerance	± 20%(M), ± 10%(K), ± 5%(J) (For special order)
DC Leakage Current	$I_0 \leq 0.02 C_R V_R$ or 1 μA (25°C) (Whichever is greater)
Case Sizes and Dimensions	Please see Table 2
Dissipation Factor at 25°C	Please see Table 1
Temperature Characteristics	Please see Table 1



Temperature Characteristics

Table 1

Capacitance (μF)	Capacitance Change (%)			DF Max. (%)				DCL Max. (μA)		
	-55°C	+85°C	+125°C	-55°C	+25°C	+85°C	+125°C	+25°C	+85°C	+125°C
≤1.0				6	4	6	6	$I_0 \leq 0.02 C_R V_R$ or 1μA whichever is greater	+10 I_0	+12.5 I_0
1.5~68	±10	±15	±25	8	6	8	8			
10~68				10	8	10	10			
100~680				12	10	12	12			

Dimensions - Millimeters

Unit:mm Table 2

Case Size	D (max)	L (max)	S (±1mm)	d (±0.05mm)
A	4.5	7.0	2.54	0.5
B	5.0	8.0	2.54	0.5
C	5.5	9.5	2.54	0.5
D	6.5	11.0	2.54	0.5
E	8.5	13.0	5.08	0.5
F	9.5	16.5	5.08	0.5

Rated Voltage, Nominal Capacitance and Case Sizes

UR	V	4	6.3	10	16	20	25	35	50
Derated Voltage ≤+125°C(V)		2.7	4	7	10	15	17	23	33
Surge Voltage ≤+85°C(V)		5	8	13	20	26	32	46	65
Capacitance (μF)	Case Size								
0.047								A	A
0.068								A	A
0.1								A	A
0.15								A	A
0.22								A	A
0.33								A	A
0.47								A	A
0.68								A	A
1.0					A	A	A	A	B
1.5					A	A	A	A	C
2.2				A	A	A	A	B	C
3.3			A	A	A	B	B	B	D
4.7	A	A	A	A	B	B	B	C	D
6.8	A	A	B	B	C	C	C	D	E
10	A	B	B	B	C	C	C	D	E
15	A	B	C	C	D	D	D	E	F
22	B	C	C	C	D	D	D	E	F
33	B	C	D	D	E	E	E	F	F
47	C	D	D	D	E	E	E	F	F
68	D	D	D	E	F	F	F	F	F
100	D	E	E	D	F	F	F	F	F
150	E	E	E	F	F	F	F	F	F
220	E	E	F	F	F	F	F	F	F
330	F	F	F	F	F	F	F	F	F
470	F	F	F	F	F	F	F	F	F
680	F	F	F	F	F	F	F	F	F

