

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/T10856-96.
- Highly used in military and civil applications, such as TV sets, camcorders, computers, program-controlled electronic telephoneswitching systems, telephones, instruments and meters.
- RoHS Compliance & Lead Free Terminations.

SPECIFICATIONS

Rated Voltage
Operating Temperature Range

D.C. 4V ~ 50V
-55°C to +125°C (>85°C with rated voltage derating.)

Capacitance Range
Capacitance Tolerance

0.047 μF to 680 μF
± 20%(M), ± 10%(K),
± 5%(J) (For special order)

DC Leakage Current
(Whichever is greater)

$I_o \leq 0.02 C_R V_R$ or 1 μA (25°C)

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

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)									
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	B	B	B	C	D	
6.8	A	A	B	B	C	C	D	E	
10	A	B	B	B	C	C	D	E	F
15	A	B	C	C	D	D	E	F	
22	B	C	C	C	D	D	E	F	
33	B	C	D	D	E	E	F		
47	C	D	D	E	E	E	F		
68	D	D	D	E	F	F			
100	D	E	E	D	F	F			
150	E	E	E	F					
220	E	E	F						
330	F	F							
470	F	F							
680	F	F							

