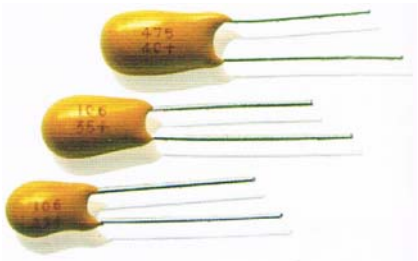
CA42 Series Epoxy-Coated Solid Electrolytic Tantalum Capacitor

Brief Introduction

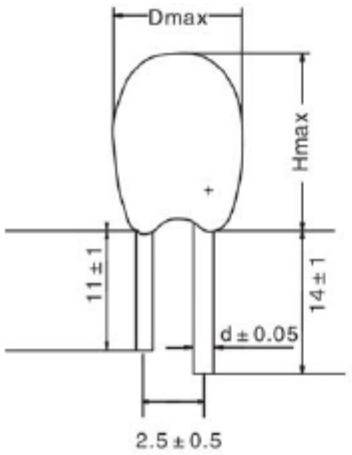


●Epoxy-coated,Radial-lead,Heteropolarity;
●Stable in electrical & storage performances,Small in size，Light in weight,Easy for installation;
●Applying in TV sets,Telephones,Instruments and Meters, such Electrical Equipments with DC & Impulse Circuit;
●Operative Standard:GB7215-87;
●Ordering Information:CA42-106K025AB:1000pcs.

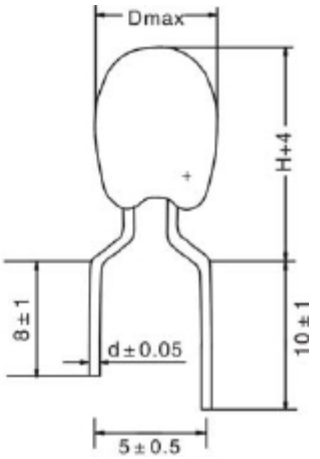
Features

●Operating Temperature Range：-55°C~+125°C;(>85°C,with rated voltage derating）;
●DC Leakage at 25°C：$I_0 \leq 0.01 C_R U_R$ or 0.5μA(Choose the greater one);
●Capacitance Range：0.1μF~1000μF;
●Capacitance Tolerance：K：±10％；M：±20％;
●Dimensions：See Figure& Table1.

Unit:mm



A型



B型

Table1 Electrical Characteristics

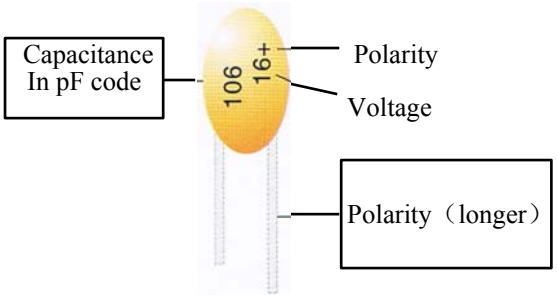
Rated Voltage U_R(V)			4	6.3	10	16	25	35(32)	40	50
Category Voltage U_C(V)			2.5	4	6.3	10	16	20	25	32
Surge Voltage			5	8	13	20	32	46	50	65
Dimensions(mm)		Max Weight (g)	Nominal Capacitance C_R(μF)							
D×H	d	S								
(A) 4.4×6.5	0.5	2.5	0.8	4.7	2.2	1.5	0.68	0.33	0.1	0.1	0.1
				6.8	3.3	2.2	1	0.47	0.22	0.15	0.15
				10	4.7	3.3	1.5	0.68	0.33	0.22	0.22
				15	6.8	6.8	2.2	1	0.47	0.33	0.33
				22	10	10	3.3	1.5	0.68	0.47	0.47
				33	15	15	4.7	2.2	1	0.68	
					22		6.8	3.3	1.5		
							10				
(B) 5×7.5	0.5	2.5	1.5	47	33	22	15	4.7	2.2	1	0.68
				68	47	33	22	6.8	3.3	1.5	1
								10	4.7	2.2	1.5
(C) 5.5×9	0.5	2.5	2	100	68	47	33	15	6.8	3.3	2.2
				150	100	68	47	22	10	4.7	3.3
						100					
(D) 6.3×10.5	0.5	2.5	2.5	220	150	150	68	33	15	6.8	4.7
				330	220		100	47	22	10	6.8
(E) 7.2×12	0.5	2.5	3	470	330	220	150	68	33	15	10
				680	470	330	220	100	47	22	15
(V) 8.5×13	0.5	5	5	1000	680	470	330	150	68	33	22
					820	680	470			47	33

Table 2 Temperature Characteristics

Capacitance （μF）	Max					
	D.F(%)				DCL(μA)	
	-55℃	25℃	85℃	25℃	85℃	125℃
0.1～1.0	6	4	6		$8I_0$	$10I_0$
1.5～6.8	8	6	8			
10～68	10	8	10			
100～330	12	10	12			
470～680	14	12	14			
＞680	16	14	16			

P.S. : 1 Please do not use multimeter through the measuring procedures.
2 Capacitance and DF measured at :100Hz，U__=2.2°$_{-1.0}$V，U~=1.0°$_{-0.5}$V, Frequency=100Hz. Test only applied in series equivalent circuit.
3 Voltage derating is applied at +125℃.（The DCL parameter should be read after 5minutes when it connected to the circuit）.
4 Special size and demand could consult with us.

Marking &Packaging

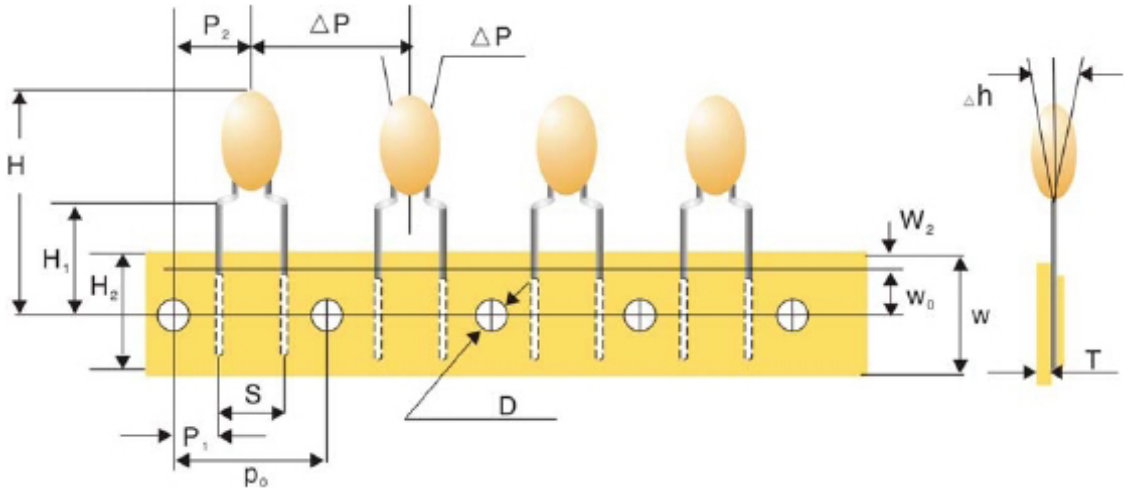


Dimension of tape and reel(per specification IEC286-2)

Symbol	Dimensions (mm)		Symbol	Dimensions
P	12.7±1.0		D	4.0±0.2
P_0	12.7±0.3		T	0.5±0.2
W	18	+1	ΔH	0±0.2
		-0.5	H_1	16±0.5
W_0	5min		S	2.5±0.5
H_2	9	+0.75	P_1	5.10±0.5
		-0.5		3.85±0.7
W_2	0	+1	P_2	6.35±0.4
		0		
H	32.5max		ΔP	±1.3max

Packaging

B:Bulk
T:Reel
A:Ammo



Order Information

CA42	105	M	035	A	T
Type	Capacitance Code	Tolerance	DC voltage	Leads Pitch	Packaging
CA42	105=10X10^5 (pF)=1μF 105=10X10^5 (pF)This is expressed in pico farads. The first two digits are the significant figures.The third is the number of zeros to follow.	K=±10% M=±20%	4V=004 6.3V=006 10V=010 16V=016 25V=025 35V=035 40V=040 50V=050	A:2.5mm B:5.0mm	T=Tape and Reel A=ammo pack B=bulk pack