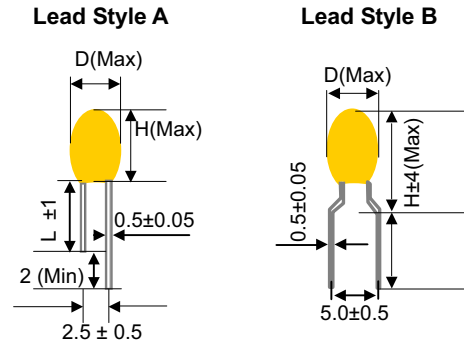


INTRODUCTION

CB Series sinter-anode, epoxy-coated solid electrolyte tantalum capacitors are encapsulated with flame-retardant yellow epoxy powder, marked with laser. CB Series meets and exceeds the requirements of IEC Specification 384-15-3, IECQ Specification QC300201US0003 and Technical Specification SJ/T10856-96, used in military and civil applications such as TV sets, camcorders, computers, program controlled electronic telephone switching systems, telephones, instruments and meters.

DIMENSIONS (mm)

Case Size	D (max)	H (Max)	L (±1)	d (±0.05)
A	4.0	6.0	14	0.5
B	4.8	7.2	14	0.5
C	5.5	8.0	14	0.5
D	6.0	9.4	14	0.5
E	7.2	11.5	14	0.5
F	8.2	12.5	14	0.5

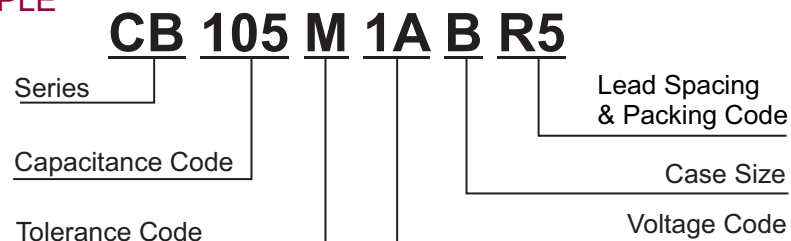


MAXIMUM RATING & ELECTRICAL CHARACTERISTICS

All technical data relate to an ambient temperature of +25°C

ITEMS		PERFORMANCE							
Operating Temperature		-55°C ~ +125°C (> 85°C w ith rated voltage derating)							
Voltage	Rated Voltage DC (VR) ≤ +85°C	4	6.3	10	16	20/25	35	40	50
	Category Voltage (Vc) ≤ +125°C	2.5	4	6.3	10	16	20	25	32
	Surge Voltage (Vs) ≤ +85°C	5	8	13	20	32	46	52	65
	Surge Voltage (Vs) ≤ +125°C	3	5	8	12	19	28	31	39
Capacitance Range		0.1µF ~ 680µF							
Tolerance		±20% (M), ±10% (K), ±5 (J)							
DC Leakage current	+20°C				+125°C				
	I ₀ ≤ 0.02C _R U _R or 1µA (whichever is greater)				I ₀ ≤ 12.5µA (whichever is greater)				
Dissipation Factor (tan δ)	Capacitance (µF)	Capacitance Change			DF Max (%)				
		-55°C	+25°C	+125°C	-55°C	+25°C	+125°C		
	0.1 ~ 1.0	±10	±15	±25	6	4	6		
	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			

PART NUMBER EXAMPLE

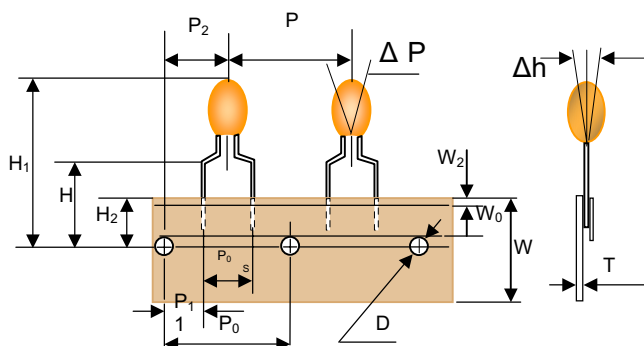


COMMON CASE CODES

Voltage μF	Code	4	6.3	10	16	20 / 25	35	40	50
		(0G)	(0J)	(1A)	(1C)	(1D / 1E)	(1V)	(1G)	(1H)
0.1	104							A	A
0.15	154							A	A
0.22	224							A	A
0.33	334							A	A
0.47	474					A	A	A	A
0.68	684					A	A	A	B
1.0	105				A	A	A	B	B
1.5	155			A	A	A	A	B	B
2.2	225		A	A	A	A	B	B	C
3.3	335		A	A	A	A	B	C	C
4.7	475	A	A	A	A	B	B	C	D
6.8	685	A	A	A	A	B	C	D	D
10	106	A	A	A	A	B	C	D	E
15	156	A	A	A	B	C	D	E	E
22	226	A	A	B	B	C	D	E	F
33	336	A	B	B	C	D	E	F	
47	476	B	B	C	C	D	E		
68	686	B	C	C	D	E	F		
100	107	C	C	C	D	E			
150	157	C	D	D	E	F			
220	227	D	D	E	E				
330	337	D	E	E	F				
470	477	E	E	F					
680	687	E	F						

PACKAGING INFORMATION

Symbol	Dimensions (mm)		Symbol	Dimensions (mm)	
P	12.7 ± 1.0		D	4.0 ± 0.3	
P ₀	12.7 ± 0.3		T	0.5 ± 0.2	
W	18	+1.0	Δh	0 ± 2.0	
		-0.5	H	16 ± 0.5	
W ₀	5 min.		S	2.5 ± 0.5	5.0 ± 0.7
H ₂	9	+0.75	P ₁	5.1 ± 0.5	3.85 ± 0.7
		-0.50			
W ₂	0	+1	P ₂	6.35 ± 0.4	
		-0			
H ₁	32.5 max.		ΔP	±1.3 max.	



LEAD SPACING & PACKAGING

Code	Definition	Lead Spacing
A	Tape & Ammo	2.5mm
A5	Tape & Ammo	5.0mm
R	Tape & Reel	2.5mm
R5	Tape & Reel	5.0mm
B	Loose (Bulk) Packaging	2.5mm
B5	Loose (Bulk) Packaging	5.0mm

RECOMMENDED SOLDER PROFILE

