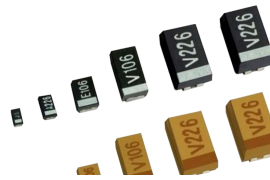


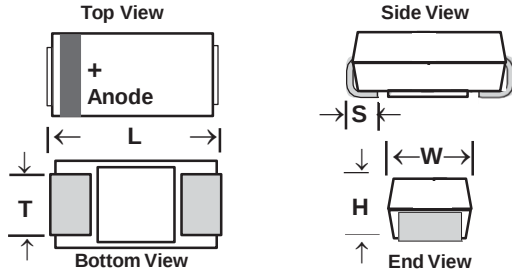


CBAA SERIES: General Purpose
CBAB SERIES: Low ESR



- Epoxy molded, UL94V-0 Flame Retardant
- Excellent humidity and surge performance
- Low leakage current
- -55° to +125°C operating temperature range
- Extended capacitance range and low profile designs available

Jinpei provides superior performance and wide capacitance range as a result of a solid slug of high-gain tantalum powders sintered under vacuum. The flame retardant epoxy molding ensures optimum environmental protection and dielectric strength. Non-standard values, low-profile packages, custom marking, military screening, fusible, etc., are available.



DIMENSIONS (low profile version also available)

CASE SIZE	L	W	H	T	S
S (0805) [2012]	.079±.008 [2 ±0.2]	.049±.008 [1.25±0.2]	.047±.008 [1.2±0.2]	.043±.008 [1.1±0.2]	.020±.012 [.5±0.3]
A (1206) [3216]	.126±.008 [3.2±0.2]	.063±.008 [1.6±0.2]	.063±.008 [1.6±0.2]	.047±.008 [1.2±0.2]	.031±.012 [0.8±0.3]
B (1411) [3528]	.138±.008 [3.5±0.2]	.110±.008 [2.8±0.2]	.075±.008 [1.9±0.2]	.087±.008 [2.2±0.2]	.031±.012 [0.8±0.3]
C (2412) [6032]	.236±.012 [6.0±0.3]	.126±.012 [3.2±0.3]	.098±.012 [2.5±0.3]	.087±.008 [2.2±0.2]	.051±.012 [1.3±0.3]
D (2917) [7343]	.287±.012 [7.3±0.3]	.169±.012 [4.3±0.3]	.110±.012 [2.8±0.3]	.094±.008 [2.4±0.2]	.051±.012 [1.3±0.3]
E (2917H) [7343H]	.287±.012 [7.3±0.3]	.169±.012 [4.3±0.3]	.162±.012 [4.1±0.3]	.094±.008 [2.4±0.2]	.051±.012 [1.3±0.3]

STANDARD CAPACITANCE AND ESR (Ω) VALUES (extended value range available in each size, ESR is typ.)

Volt/Rating 85°C		4VDC(5V Surge)			6.3VDC(8V Surge)			10VDC(13V Surge)			16VDC(20V Surge)			20VDC(26V Surge)			25VDC(33V Surge)			35VDC(46V Surge)			50VDC(65V Surge)			
uF	Code	Case Size	CBAA ESR	CBAB ESR	Case Size	CBAA ESR	CBAB ESR	Case Size	CBAA ESR	CBAB ESR	Case Size	CBAA ESR	CBAB ESR	Case Size	CBAA ESR	CBAB ESR	Case Size	CBAA ESR	CBAB ESR	Case Size	CBAA ESR	CBAB ESR	Case Size	CBAA ESR	CBAB ESR	
0.1	104													S	25					A	24	10	A	22	10	
.15	154													S	25					A	21	6	B/A	17/15	10/10	
.22	224													S	25					A	18	6	B	14	10	
.33	334													S	25					A	15	6	B	12	2.5	
.47	474										S	25		S	25		A	14	9	B/A	10/12	2.5/4	C/B	8	1.8/2.0	
.68	684							S	30		S	25		A/S	12/25	8/NA	A	10	6	B	8	2.5	C/B	7	1.6/3.0	
1.0	105				A/S	14/25		A/S	13/25		A/S	11/20	6/NA	A	9	5.5	B/A	7/8	2/4	C	B	6.5	2	C	5.5	1.6
1.5	155	S	30		A/S	12/25		A/S	10	6/NA	A/S	8/12	6/NA	B/A	5/6.5	NA/4.5	B	5	1.5	C/B	4.5/5.2	2.5/3	D/C	4/4.5	1/1.5	
2.2	225	S	25		A/S	9/20	6/NA	A/S	7	6/NA	B/A	5.5/6.5	NA/4	B/A	3.5/5.3	1.5/4	B	4.5	2.2	C	3.5	1.5	D/C	2.5	.8/1.5	
3.3	335	A/S	9/20	4/NA	A/S	7/12	6/NA	B/A	5/5.5	NA/4	B/A	4.5/5	2/4	C/B	2.5/3	NA/1.3	C	2.8	1.2	D/C	2.0/2.5	NA/8	D	2.0	.8	
4.7	475	A/S	7.5/14	3.5/NA	B/A	5/6	NA/3.5	B/A	4/5	1.5/3	B/A	3.5/4	1.5/3	D/C	2.5/2.8	NA/6	C	2.4	.6	D/C	1.5/2.2	.7/7	D/E	1.4/9	.6	
6.8	685	B/A	6/6.5	NA/3	B/A	4/5	1.2/2	B/A	3/4	1.2/3	C/B	2.5/3.5	.8/1.2	D/C	1.8/2	NA/6	D/C	1.4/2	NA/6	D	1.3	.5	E	.9	.5	
10	106	B/A	4/6	1.2/2	B/A	3/4	1/2	B/A	2.5/3	.8/2	C/B	2/2.8	.6/8	D	1.3	NA/5	D/C	1.2/1.8	4/6	D	1	.4	E	.9		
15	156	B/A	3.5/4	1.2/2	C/B	2.5/3.2	.6/7	C/B	2.2/2.8	.5/7	C	1.8	.4	D	1.1	.35	D	1	.4	E	.9	.3	E	.9		
22	226	C/B	2.5/3.2	.5/6	C/B	2/2.5	.5/6	C/B	1.8/2.4	.4/7	D/C	1.1/1.6	.25/35	D	.9	.3	D	.9	.4	E	.9	.3	E	.9		
33	336	C/B	2.2/2.8	.5/5	D/C	1.3/1.8	NA/3	D/C	1.1/1.6	.25/3	D/C	.9/1.5	.25/3	D	.9	.25	E	.9	.3	E	.9	.3	E	.9		
47	476	D/C	1.3/1.8	NA/5	D/C	1.1/1.6	.22/25	D/C	.9/1.2	.22/3	D/C	.9/1.4	.2/3	E/D	.9/9	NA/2	E	.9	.3							
68	686	D/C	1.1/1.6	.2/25	D/C	.9/1.6	.2/2	D	.9	.2	D	.9	.15	E	.9	.2	E	.9								
100	107	D/C	.9/1.3	.2/2	D/C	.9/1.4	.15/3	D	.9	.15	D/E	.9	.15/15	E	.9	.15	E	.9								
150	157	D/C	.7/1.0	.15/3	D	1	.15	E	1	.15	E	.9	.15	E	.9	.15	E	.9								
220	227	D	.9	.15	E	1	.15	E	.9	.15	E	.9	.15	E	.9	.15	E	.9								
330	337	E	.9	.15	E	.9	.15	E	.9	.15	E	.9	.15	E	.9	.15	E	.9								
470	477	E	.9	.15	E	.9	.15	E	.9	.15	E	.9	.15	E	.9	.15	E	.9								
680	687	E	.9	.15	E	.9	.15	E	.9	.15	E	.9	.15	E	.9	.15	E	.9								

² Derate voltage rating by .825%/°C above 85°C

SPECIFICATIONS

CAPACITANCE (120 Hz)	ΔC FROM INITIAL @20°C				DISSIPATION FACTOR, TYP.			
	-55°C	+85°C	+125°C		-55°C	+20°C	+85°C	+125°C
<1.0μF					6%	4%	5%	6%
1.5 to 68μF					10%	6%	8%	10%
100 to 220μF	-10%	+10%	+12%		12%	8%	10%	12%
330 to 680μF					16%	12%	14%	16%

STANDARD PACKAGING

Case Size	7" Reel Qty, typ.	Tape Width
S	0805 [2012]	2500
A	1206 [3216]	2000
B	1411 [3528]	2000
C	2412 [6032]	500
D	2917 [7343]	500
E	2917H [7343H]	400

PART NUMBER EXAMPLE

CBA 475 K 1A A T

Packaging T=Tape Reel, B=Bulk

Case Size

Voltage

0G=4V 0J=6.3V 1A=10V 1C=16V

1D=20V 1E=25V 1V=35V 1H=50V

Tolerance M=20% K=10% J=5%

Capacitance

Series