

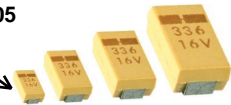
HIGH RELIABILITY TANTALUM CHIP CAPACITORS

TS-G SERIES- General Purpose TSE-G SERIES- Low ESR



RESISTORS • CAPACITORS • COILS • DELAY LINES

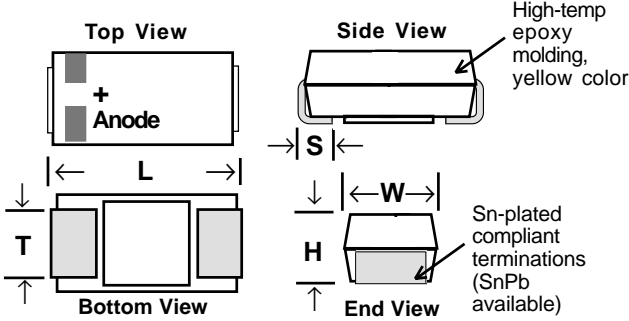
New! Mini 0805 case size



Term. W is RoHS compliant & 260°C compatible

- Epoxy molded, UL94V-0 Flame Retardant
- Excellent humidity and surge performance
- Low leakage current
- -55° to +125°C operating temperature range
- Wide range of screening and burn-in options available

RCD's hi-rel "G" version complements the standard commercial-grade series. Designed for applications requiring increased reliability, such as military/medical/aerospace, the "G" version receives Group A screening for DC leakage, capacitance, dissipation factor, ESR and mechanical examination requirements. Lot tracability is maintained and the inspection system complies with MIL-STD-790 QPL system. A full gamut of environmental screening tests are available (moisture, vibration, etc.).



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 ²	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	TS' ESR	TSE' ESR	Case Size	TS' ESR	TSE' ESR	Case Size	TS' ESR	TSE' ESR	Case Size	TS' ESR	TSE' ESR	Case Size	TS' ESR	TSE' ESR	Case Size	TS' ESR	TSE' ESR	Case Size	TS' ESR	TSE' ESR		
0.1	104																								
.15	154																								
.22	224																								
.33	334																								
.47	474																								
.68	684																								
1.0	105																								
1.5	155	S	30		A/S	14/25		A/S	13/25		A/S	11/20	6/NA	A	9	5.5	B/A	7/8	2/4	B	6.5	2	C	5.5	1.6
2.2	225	S	25		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
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	1.4	.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	8/12	D/C	1.8/2	NA/6	D	1.3	1.4/2	NA/6	D	1.3	.5	E	.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			
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			
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	0.9	.3	D	.9	.4	E	.9	.3			
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	0.9	.25	E	.9	.3						
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									
68	686	D/C	1.1/1.6	.2/25	D/C	.9/1.6	.2/2	D	0.9	.2	D	0.9	.15	E	0.9	.2									
100	107	D/C	.9/1.3	.2/2	D/C	.9/1.4	.15/3	D	0.9	.15	D	0.9	.15												
150	157	D/C	.7/1.0	.15/3	D	0.9	.15	E	0.9	.15	E	0.9	.15												
220	227	D	0.9	.15	E	0.9	.15	E	0.9	.15	E	0.9													
330	337	E	0.9	.15	E	0.9	.15	E	0.9	.10															
470	477	E	0.9	.15	E	0.9	.10																		

¹ Leakage current = 0.01C_μV (or 0.5μA, whichever is greater)
² Derate voltage rating by .825%/°C above 85°C

SPECIFICATIONS

CAPACITANCE (120Hz)	ΔC FROM INITIAL @20°C			DISSIPATION FACTOR, TYP.			
	-55°C	+85°C	+125°C	-55°C	+20°C	+85°C	+125°C
<1.0μF	-10%	+10%	+12%	6%	4%	5%	6%
1.5 to 68μF				10%	6%	8%	10%
100 to 220μF				12%	8%	10%	12%
330 to 470μF				16%	12%	14%	16%

STANDARD PACKAGING

Case Size	0805 [2012]	7" Reel Qty, typ.	Tape Width
S	2500	2500	8mm
A	1206 [3216]	2000	8mm
B	1411 [3528]	2000	8mm
C	2412 [6032]	500	12mm
D	2917 [7343]	500	12mm
E	2917H [7343H]	400	12mm

P/N DESIGNATION:

