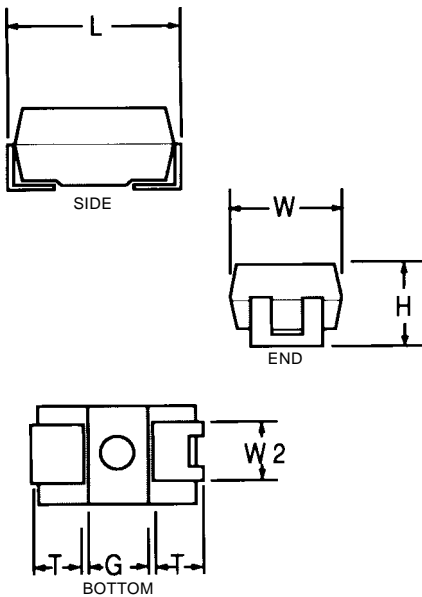




TANTALUM CHIP CAPACITOR

- Epoxy Molded Body, UL94V-0 Flammability
- EIA - US and EIA - Japan Compatible Sizes
- 100% Burn-in and End-of-Line Testing
- Extended Values Per Case Size
- Excellent Humidity and Solder Resistance

DIMENSIONS



CASE SIZE KSE / EIA		L	W	H	T	G	W ²
P/2012	mm	2.0 ± 0.2	1.25 ± 0.2	1.2 max.	0.5 ± 0.3	0.8 min.	0.9 ± 0.1
	in	0.078 ± 0.008	0.049 ± 0.008	0.05 max.	0.020 ± 0.012	0.03 min.	0.035 ± 0.004
A/3216	mm	3.2 ± 0.2	1.6 ± 0.2	1.6 ± 0.2	0.7 ± 0.3	1.4 ± 0.2	1.2 ± 0.2
	in	0.126 ± 0.008	0.063 ± 0.008	0.063 ± 0.008	0.028 ± 0.012	0.055 ± 0.008	0.047 ± 0.008
B/3528	mm	3.5 ± 0.2	2.8 ± 0.2	1.9 ± 0.2	0.8 ± 0.3	1.4 ± 0.2	2.2 ± 0.2
	in	0.138 ± 0.008	0.110 ± 0.008	0.073 ± 0.008	0.031 ± 0.012	0.055 ± 0.008	0.087 ± 0.008
C/6032	mm	6.0 ± 0.3	3.2 ± 0.2	2.5 ± 0.2	1.3 ± 0.3	2.4 ± 0.2	2.2 ± 0.2
	in	0.236 ± 0.012	0.126 ± 0.008	0.098 ± 0.008	0.051 ± 0.012	0.094 ± 0.008	0.087 ± 0.008
D/---- (EIA-J)	mm	5.8 ± 0.2	4.5 ± 0.2	3.1 ± 0.2	1.3 ± 0.3	2.5 ± 0.2	3.1 ± 0.2
	in	0.228 ± 0.008	0.177 ± 0.008	0.122 ± 0.008	0.051 ± 0.012	0.098 ± 0.008	0.122 ± 0.008
E/7343 (EIA D)	mm	7.3 ± 0.3	4.3 ± 0.3	2.8 ± 0.2	1.3 ± 0.3	3.8 ± 0.2	2.4 ± 0.1
	in	0.287 ± 0.012	0.169 ± 0.012	0.110 ± 0.008	0.051 ± 0.012	0.15 ± 0.008	0.094 ± 0.004

ORDERING & SPECIFYING INFORMATION*

TMC	1E	C	475	M	L	R	H
Type	Voltage Code	Case Size	Nominal Capacitance	Tolerance	Packaging	Polarity Orientation	Leader Length Cover/Carrier
	(See Table 1a or 1b) OE: 2.5V OG: 4V OJ: 7V 1A: 10V 1C: 16V 1D: 20V 1E: 25V 1V: 35V 1H: 50V	(See Above) P: 2012 A: 3216 B: 3528 C: 6032 D: EIA-J E: EIA-D	See Cap Code Table 1a or 1b on preceding page 40	M: $\pm 20\%$ K: $\pm 10\%$	L - Tape/Reel Plastic P Case: 3000 A,B Case: 2000 C,D,E Case: 500	R (Std. - Taping) Feed Hole 	H 200mm Min (Std)

*Please Note: KSE's Part Numbers Do Not Contain any Spaces or Hyphens.

STANDARD RANGE/CASE SIZE (Table 1a)

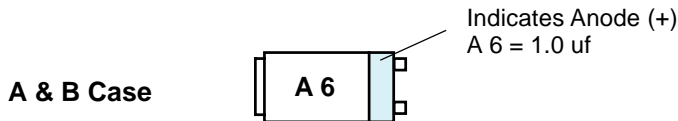
EXTENDED RANGE/CASE SIZE (Table 1b)

STANDARD VALUES VOLTAGE CODE		0G	0J	1A	1C	1D	1E	1V	1H
85°C	RATED VOLTAGE (VDC)	4	7	10	16	20	25	35	50
	SURGE VOLTAGE (VDC)	5	9	13	20	26	32	46	63
125°C	DERATED VOLTAGE (VDC)	2.5	4	6.3	10	13	16	23	32
CAPACITANCE (μF)	CAPCODE								
0.1	104							A	A
0.15	154							A	B
0.22	224							A	B
0.33	334							A	B
0.47	474						A	B	C
0.68	684					A		B	C
1.0	105			A				B	C
1.5	155			A			B	C	D,E
2.2	225		A			B		C	D,E
3.3	335	A			B			C	
4.7	475			B			C	D,E	
6.8	685		B			C		D,E	
10	106	B			C		D,E		
15	156			C		D,E			
22	226		C		D,E				
33	336	C		D,E					
47	476		D,E						
68	686	D,E							

STANDARD VALUES VOLTAGE CODE		0E	0G	0J	1A	1C	1D	1E	1V	1H
85°C	RATED VOLTAGE (VDC)	2.5	4	7	10	16	20	25	35	50
	SURGE VOLTAGE (VDC)	3.2	5	9	13	20	26	32	46	63
125°C	DERATED VOLTAGE (VDC)	1.6	2.5	4	6.3	10	13	16	23	32
CAPACITANCE (μF)	CAPCODE									
0.047	473							P		
0.068	683							P		
0.1	104						P		A	A
0.15	154						P		A	A,B
0.22	224						P		A	A,B
0.33	334						P		A	B
0.47	474					P	P	A	A,B	B,C
0.68	684				P	P	P	A	A,B	B,C
1.0	105			P	P	A,P	A	A	A,B	C
1.5	155		P	P	A,P	A	A	A,B	B,C	C,D,E
2.2	225	P	P	A,P	A	A	A,B	B	B,C	C,D,E
3.3	335	P	A,P	A,P	A	A,B	A,B	B	B,C	D,E
4.7	475	P	A,P	A,P	A,B	A,B	A,B,C	B,C	C,D,E	D,E
6.8	685	A,P	A,P	A,B,P	A,B,C	A,B	B,C	C	C,D,E	D
10	106	A,P	A,B,P	A,B,P	A,B,C	B,C	B,C	C,D,E	D,E	
15	156	A	A,B	A,B	B,C	B,C	C,D,E	C,D,E	D,E	
22	226	A,B	A,B	A,B,C	B,C	B,C,D,E	C,D,E	D,E		
33	336	A,B	A,B,C	B,C	B,C,D,E	C,D,E	D,E			
47	476	B	B,C,D	B,C,D,E	C,D,E	C,D,E	D,E			
68	686	B,C	B,C,D,E	C,D,E	C,D,E	D,E				
100	107	B,C	C,D,E	C,D,E	D,E	D,E				
150	157	C,D,E	C,D,E	D,E	D,E					
220	227	C,D,E	D,E	D,E	E					
330	337	D,E	D,E	E						
470	477	D,E	E							

PART MARKING

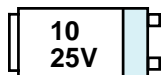
STANDARD RANGE



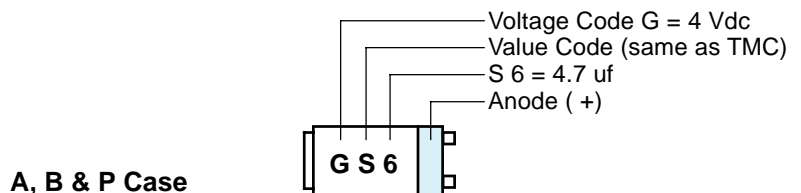
VALUE (uf)	.1	.15	.22	.33	.47	.68	1.0	1.5	2.2	3.3	4.7	6.8	10.0
MARKING	A5	E5	J5	N5	S5	W5	A6	E6	J6	N6	S6	W6	A7

EXTENDED RANGE

C, D & E Case

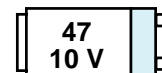


Upper number indicates capacitance in uf
Lower number indicates rated voltage in VDC



VOLTAGE	2.5	4	7	10	16	20	25	35	50
MARKING	e	G	J	A	C	D	E	V	H

C, D & E Case



Same marking as TMC except letter "V" added

NOTE:
To obtain
**ELECTRICAL,
MECHANICAL &
ENVIRONMENTAL SPECIFICATIONS**
as well as
TAPE & REEL INFORMATION
please contact KOA Speer
and request our complete TMC Catalog.