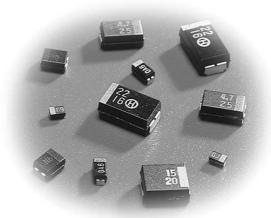




## standard tantalum chip capacitor

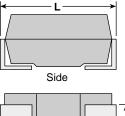


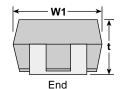


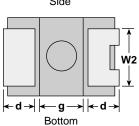
#### features

- Epoxy molded body, UL94V0 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
- · Marking: Black body color with white marking
- Products with lead-free terminations meet RoHS requirements

### dimensions and construction







Case Size		D	imensions	inches (mn	1)		
(Inch Size Code)	L	W1	W2	t	d	g	
P	.079±.008	.049±.008	.035±.004	.047 Max.	.020±.012	.031 Min.	
(2012)	(2.0±0.2)	(1.25±0.2)	(0.9±0.1)	(1.2 Max.)	(0.5±0.3)	(0.8 Min.)	
A	.126±.008	.063±.008	.047±.008	.063±.008	.028±.012	.055±.008	
(3216)	(3.2±0.2)	(1.6±0.2)	(1.2±0.2)	(1.6±0.2)	(0.7±0.3)	(1.4±0.2)	
B	.138±.008	.110±.008	.087±.008	.073±.008	.031±.012	.055±.008	
(3528)	(3.5±0.2)	(2.8±0.2)	(2.2±0.2)	(1.9±0.2)	(0.8±0.3)	(1.4±0.2)	
C	.236±.012	.126±.008	.087±.008	.098±.008	.051±.012	.094±.008	
(6032)	(6.0±0.3)	(3.2±0.2)	(2.2±0.2)	(2.5±0.2)	(1.3±0.3)	(2.4±0.2)	
E	.287±.012	.169±.012	.094±.004	.110±.008	.051±.012	.15±.008	
(EIA-D)	(7.3±0.3)	(4.3±0.3)	(2.4±0.1)	(2.8±0.2)	(1.3±0.3)	(3.8±0.2)	

### ordering information

New Part #

TMC	1E
Туре	Voltage Code
	0G: 4V
	0J: 7V
	1A: 10V
	1C: 16V
	1D: 20V
	1E: 25V
	1V: 35V

1E	С
Voltage Code	Case Size
0G: 4V	P: 2012
0J: 7V	A: 3216
1A: 10V	B: 3528
1C: 16V	C: 6032
1D: 20V	E: EIA-D
1E: 25V	
	l

T
Termination Material
T: Sn

TE
Packaging
TE: 7" embossed
plastic

7/3
Nominal Capacitance
Reference
capacitance
ranges and
case sizes
chart

М
Tolerance
Tolerance
K: ±10%
M:±20%

R
Polarity Orientation
Orientation

For further information on packaging, please refer to Appendix A.





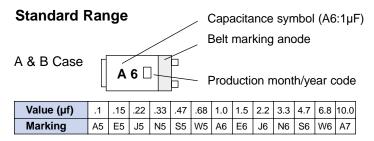
# standard tantalum chip capacitor

## capacitance ranges and case sizes

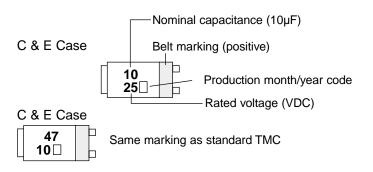
### **Standard Range**

STANDA	RD VALUE	0J	1A	1C	1D	1E	1V			
85°C	Rated	Voltage (VDC)	7	10	16	20	25	35		
	Surge	Voltage (VDC)	9	13	20	26	32	46		
125°C	Derate	d Voltage (VDC)	4	6.3	10	13	16	23		
Capacita	Capacitance (µF) Capcode									
0	.1	104						Α		
0.	.15	154								
0.	22	224								
0.	33	334								
0.47		474					Α			
0.	.68	684								
1	.0	105			Α			В		
1	.5	155								
2	2	225				В				
3	.3	335			В					
4	.7	475		В			С			
6	.8	685								
1	10	106			С					
1	15	156								
2	22	226								
3	33	336								
4	17	476								
6	88	686								

### part marking



#### **Extended Range**



#### **Extended Range**

STANDAI	RD VALUE	S VOLTAGE CODE	0G	0J	1A	1C	1D	1E	1V
85°C	Rated	d Voltage (VDC)	4	7	10	16	20	25	35
	Surge Voltage (VDC)		5	9	13	20	26	32	46
125°C	Derate	ed Voltage (VDC)	2.5	4	6.3	10	13	16	23
Capacita	ance (µF)	Capcode							
.0	147	473							
.0	168	683							
	.1	104					Р		
	15	154							
.2	22	224					Р		
.:	33	334							
.4	47	474							Α
.6	68	684						Α	
1	.0	105				Р	Α		Α
1	.5	155				Α			A,B
2	1.2	225			A,P	Α	Α	A,B	В
3	3.3	335		Α	A,P	Α	Α	A,B	В
4	.7	475		A,P	A,P	A,B,P	A,B	В	С
6	5.8	685		A,P	A,P	A,B	В		
1	10	106		A,P	A,B,P	A,B	В	С	С
1	15	156		A,P	Α	A,B			
2	22	226	A,B,P	A,B,P	A,B	B,C	С		Е
3	33	336	A,P	A,B	A,B	B,C			
4	17	476	A,B,P	A,B,C	B,C	C,E			
6	88	686		A,B	С				
1	00	107	Α	A,B,C		Е			
1:	50	157							
2	20	227	A,B,C	B,C	Е				
3	30	337		Е					
4	70	477		Е					

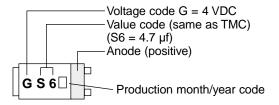
<sup>\*</sup> Special capacitance/voltage combinations available, contact factory for details

#### **Lot Number Symbol**

Lot number symbol is expressed "a" as January 1999 as a starting month and year in an alphabetical order and in a small letter to a capital (Letters of I, i, O, and o are excluded)

#### Month

		1	2	3	4	5	6	7	8	9	10	11	12	
_	2002	Ν	Р	Q	R	Ø	Τ	٦	V	W	Χ	Υ	Z	
eal	2003	а	b	С	d	е	f	g	h	j	k	- 1	m	
۶	2004	n	р	q	r	S	t	u	٧	w	Х	у	Z	
	2005	Α	В	С	D	Е	F	G	Н	J	K	L	М	



A, B & P Case

Voltage	2.5	4	7	10	16	20	25	35
Marking	е	G	J	Α	С	D	Е	V

Specifications given herein may be changed at any time without prior notice. Please confirm technical specifications before you order and/or use.

1/11/06