

## Solid Tantalum Chip Capacitors, Surface Mount For Switch Mode Power Supplies and Converters



### FEATURES

- Molded case available in five case codes.
- Compatible with "High Volume" automatic pick and place equipment.
- High Ripple Current carrying capability.
- Low ESR.
- Meets EIA 535BAE and IEC Specification QC300801/US0001.

### PERFORMANCE/ELECTRICAL CHARACTERISTICS

**Operating Temperature:** - 55°C to + 85°C.

(To +125°C with voltage derating.)

**Capacitance Range:** 0.47µF to 680µF.

**Capacitance Tolerance:** ± 20%, ± 10% standard.

**Compliant Terminations**

**100% Surge Current Tested (C, D, & E Case Sizes)**

**Voltage Rating:** 4 WVDC to 50 WVDC.

ORDERING INFORMATION							
POEL	107	M	010	D	X	P	---
TYPE	CAPACITANCE	CAPACITANCE TOLERANCE	DC VOLTAGE RATING @ + 85°C	CASE CODE	TERMINATION	REEL SIZE AND PACKAGING	
This is expressed in picofarads. The first two digits are the significant figures. The third is the number of zeros to follow.	K = ± 10% M = ± 20%		This is expressed in volts. To complete the three-digit block, zeros precede the voltage rating. A decimal point is indicated by an "R" (6R3 = 6.3 volts).	See Ratings and Case Codes Table.	X = Solderable coating. Standard.	P = Tape and reel* 7" [178mm] reel L = 13" [330mm] reel *Cathode nearest sprocket hole.	
<p><b>Note:</b> Preferred Tolerance and reel sizes are in <b>bold</b>. We reserve the right to supply higher voltage ratings and tighter capacitance tolerance capacitors in the same case size. Voltage substitutions will be marked with the higher voltage rating.</p>							

DIMENSIONS in inches [millimeters]							
CASE CODE	EIA SIZE	L	W	H	P	Tw	T <sub>H</sub> (MIN)
A	3216	0.126 ± 0.008 [3.2 ± 0.20]	0.063 ± 0.008 [1.6 ± 0.20]	0.063 ± 0.008 [1.6 ± 0.20]	0.031 ± 0.012 [0.80 ± 0.30]	0.047 ± 0.004 [1.2 ± 0.10]	0.028 [0.70]
B	3528	0.138 ± 0.008 [3.5 ± 0.20]	0.110 ± 0.008 [2.8 ± 0.20]	0.075 ± 0.008 [1.9 ± .20]	0.031 ± 0.012 [0.80 ± 0.30]	0.087 ± 0.004 [2.2 ± 0.10]	0.028 [0.70]
C	6032	0.236 ± 0.012 [6.0 ± 0.30]	0.126 ± 0.012 [3.2 ± 0.30]	0.098 ± 0.012 [2.5 ± 0.30]	0.051 ± 0.012 [1.3 ± 0.30]	0.087 ± 0.004 [2.2 ± 0.10]	0.039 [1.0]
D	7343	0.287 ± 0.012 [7.3 ± 0.30]	0.170 ± 0.012 [4.3 ± 0.30]	0.110 ± 0.012 [2.8 ± 0.30]	0.051 ± 0.012 [1.3 ± 0.30]	0.095 ± 0.004 [2.4 ± 0.10]	0.039 [1.0]
E	7343H	0.287 ± 0.012 [7.3 ± 0.30]	0.170 ± 0.012 [4.3 ± 0.30]	0.158 ± 0.012 [4.0 ± .30]	0.051 ± 0.012 [1.3 ± 0.30]	.095 ± 0.004 [2.4 ± 0.10]	0.039 [1.0]

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<b>RATINGS AND CASE CODES</b>																
μF	4V		6.3V		10V		16V		20V		25V		35V		50V	
	Std.	Ext.	Std.	Ext.	Std.	Ext.	Std.	Ext.	Std.	Ext.	Std.	Ext.	Std.	Ext.	Std.	Ext.
0.47														A		
0.68														A		
1.0									A			A	B	A	B	
1.5												A	C	B	B	C
2.2									A	B	A	C	B	D	C	
3.3							A		A		B	C		D	C	
4.7					A		B	A	B	A	C	B		C	D	E
6.8					A		A		B	C		D	C		D/E	
10			A		A	C	A/B	C	B		C	D				E
15		A	A		A/B	C	B		B/C	D	C		D			
22		A	A/B	C	A/B		B/C	D	C		D		D/E			
33		A/B	A*B		B/C	D	B/C	D	C		D/E					
47		A*B	B/C	D	B/C	D	C		D/E							
68		B/C	B/C	D	B*/C		D		D/E							
100		B/C	D	B/C		C*/D		D/E	E							
150	D	B/C	E	C/D		D/E		D*/E								
220		C/D		D/E		D/E										
330		D		D/E		D*/E										
470		D/E		D*/E		E*										
680		D*/E		E*												

\*Preliminary values, contact factory for availability.

### CONSTRUCTION AND MARKING

#### CONSTRUCTION

#### MARKING

Volts	Code
4	G
6.3	J
10	A
16	C
20	D
25	E
35	V
50	T

**Marking:**  
 Capacitor marking will include an anode (+) polarity band, capacitance in microfarads and the voltage rating of +85°C. 'A' Case capacitors use a letter code for the voltage and EIA capacitance code.  
 The POE mark may be included if space permits.  
 Units rated at 6.3 V shall be marked 6 V.  
 A manufacturing date code is marked on all case codes.  
 Call the factory for further explanation.