



Metuchen Capacitors, Inc.
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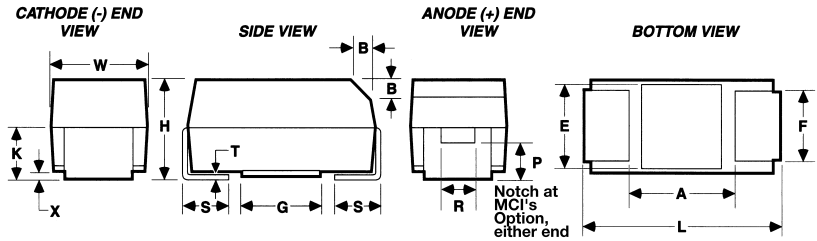
“We Offer Quick Solutions to Noise Pollution”

Surface Mount Tantalum Capacitors

Features

- Meets or Exceeds EIA Standard 535BAAC
- Taped and Reeled per EIA 481-I
- Symmetrical, Compliant Terminations
- Optional Gold-plated Terminations
- Laser-Marked Case
- 100% Surge current test on C, D, U, V, X sizes
- Capacitance: 0.1 μ F to 470 μ F
- Tolerance: \pm 10%, \pm 20%
- Voltage: 3-50 VDC
- Extended Range Values
- New Low Profile Case Sizes

Capacitor Outline Drawing



Standard M91 Dimensions

Millimeters (Inches)

Case Size	EIA/IECQ	L*	W*	H*	K* \pm 0.20 \pm (.008)	F* \pm 0.1 \pm (.004)	S* \pm 0.3 \pm (0.12)	B \pm 0.15 \pm (.006)	X (Ref)	P (Ref)	R (Ref)	T (Ref)	A (Ref)	G (Ref)	E (Ref)
A	3216	3.2 \pm 0.2 (.126 \pm .008)	1.6 \pm 0.2 (.063 \pm .008)	1.6 \pm 0.2 (.063 \pm .008)	0.9 (.035)	1.2 (0.47)	0.8 (.031)	0.4 (.016)	0.10 \pm 0.10 (.004 \pm .004)	0.4 (0.16)	0.4 (0.16)	0.13 (.005)	0.8 (.031)	1.1 (.043)	1.3 (.051)
B	3528	3.5 \pm 0.2 (.138 \pm .008)	2.8 \pm 0.2 (.110 \pm .008)	1.9 \pm 0.2 (.075 \pm .008)	1.1 (.043)	2.2 (.087)	0.8 (.031)	0.4 (.016)	0.10 \pm 0.10 (.004 \pm .004)	0.5 (.020)	1.0 (.039)	0.13 (.005)	1.1 (.043)	1.8 (.071)	2.2 (.087)
C	6032	6.0 \pm 0.3 (.236 \pm 0.12)	3.2 \pm 0.3 (.126 \pm 0.12)	2.5 \pm 0.3 (.098 \pm 0.12)	1.4 (.055)	2.2 (.087)	1.3 (.051)	0.5 (.020)	0.10 \pm 0.10 (.004 \pm .004)	0.9 (.035)	1.0 (.039)	0.13 (.005)	2.5 (.098)	2.8 (.110)	2.4 (.094)
D	7343	7.3 \pm 0.3 (.287 \pm 0.12)	4.3 \pm 0.3 (.169 \pm 0.12)	2.8 \pm 0.3 (.110 \pm 0.12)	1.5 (.059)	2.4 (.094)	1.3 (.051)	0.5 (.020)	0.10 \pm 0.10 (.004 \pm .004)	0.9 (.035)	1.0 (.039)	0.13 (.005)	3.8 (.150)	3.5 (.138)	3.5 (.138)
X	7343H	7.3 \pm 0.3 (.287 \pm 0.12)	4.3 \pm 0.3 (.169 \pm 0.12)	4.0 \pm 0.3 (.157 \pm 0.12)	2.3 (.091)	2.4 (.094)	1.3 (.051)	0.5 (.020)	0.10 \pm 0.10 (.004 \pm .004)	1.7 (.067)	1.0 (.039)	0.13 (.005)	3.8 (.150)	3.5** (.138)	3.5** (.138)

Notes: 1. Metric dimensions govern.
 2. (Ref) - Dimensions provided for reference only

* Mil-C-55365/8 Specified Dimensions
 ** Round Glue Pad: 2.9 \pm 0.1mm (0.114" \pm 0.004")

Low Profile M91 Dimensions

Millimeters (Inches)

Case Size	EIA/IECQ	L	W	H Max.	K Min.	F \pm 0.1	S \pm 0.3	X (Ref)	T (Ref)	A (Ref)	G (Ref)	E (Ref)
S	3216L	3.2 \pm 0.2 (.126 \pm .008)	1.6 \pm 0.2 (.063 \pm .008)	1.2 (.047)	0.3 (.012)	1.2 (0.47)	0.8 (.031)	0.05 (.002)	0.13 (.005)	0.8 (.031)	1.1 (.043)	1.3 (.051)
T	3528L	3.5 \pm 0.2 (.138 \pm .008)	2.8 \pm 0.2 (.110 \pm .008)	1.2 (.047)	0.3 (.012)	2.2 (.087)	0.8 (.031)	0.05 (.031)	0.13 (.005)	1.1 (.043)	1.8 (.071)	2.2 (.087)
Q		6.0 \pm 0.3 (.236 \pm 0.12)	3.2 \pm 0.3 (.126 \pm 0.12)	1.0 (0.039)	0.5 (0.020)	2.2 (.087)	1.3 (.051)	0.05 (.002)	0.13 (.005)	2.5 (.098)	2.8 (.110)	2.4 (.094)
U	6032L	6.0 \pm 0.3 (.287 \pm 0.12)	3.2 \pm 0.3 (.126 \pm 0.12)	1.5 (0.059)	0.5 (0.020)	2.2 (.087)	1.3 (.051)	0.05 (.002)	0.13 (.005)	2.5 (.098)	2.8 (.110)	2.4 (.094)
V	7343L	7.3 \pm 0.3 (.287 \pm 0.12)	4.3 \pm 0.3 (.169 \pm 0.12)	2.0 (0.079)	1.1 (0.043)	2.4 (.094)	1.3 (.051)	0.05 (.002)	0.13 (.005)	3.8 (.150)	3.5 (.138)	3.5 (.138)

Notes: 1. Metric dimensions govern.
 2. (Ref) - Dimensions provided for reference only
 3. No dimensions provided for B, P or R because low profile cases do not have a bevel or notch.

How To Order

Metuchen Tantalum

Series M91 - Precision Molded

Case Size A, B, C, D, Q, S, T, U, V, X

Capacitance Picofarad Code

First two digits represent significant figures. Third digit specifies number of zeros to follow.

M 91 B 105 M 035 A S

Lead Material

S- Tin Plating

G-Gold Plated

Failure Rate

A- Not Applicable

Voltage

Capacitance Tolerance

M- \pm 20% K \pm 10%



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 2139 Highway 35, Suite 2 • Holmdel, NJ 07733



AS 9100
 ISO 9001





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Case Size by Capacitance and Voltage

Standard Capacitance Values

Capacitance		Rated Voltage @ +85°C								
µF	Code	4	6	10	16	20	25	35	50	
0.10	104							A	A	
0.15	154							A	B	
0.22	224							A	B	
0.33	334						A	A	B	
0.47	474						A	B	C	
0.68	684					A	A	B	C	
1.0	105				A	A	B	B	C	
1.5	155			A	A	A	B	C	D	
2.2	225		A	A	A	A/B	C	C	D	
3.3	335	A	A	A	A/B	B	C	C	D	
4.7	475	A	A	A/B	B	B/C	C	D	D	
6.8	685	A	A/B	B	B/C	C	C	D		
10.0	106	A/B	B	B/C/Q	C	C	D	D		
15.0	156	B	B/C/Q	C	C	D	D			
22.0	226	B/C/Q	C	C	D	D	D			
33.0	336	C	C	D	D	D				
47.0	476	C	D	D	D					
68.0	686	D	D	D						
100.0	107	D	D							
150.0	157	D								
220.0	227									
330.0	337									
470.0	477									

Extended Capacitance Values

Capacitance		Rated Voltage @ +85°C									
µF	Code	3	4	6	10	16	20	25	35	50	
0.10	104										
0.15	154									A	
0.22	224										
0.33	334										
0.47	474								A	B	
0.68	684								A	B	
1.0	105						S	A	A		
1.5	155						S	A	B	C	
2.2	225					S		B	B	C	
3.3	335				S		T/A	B			
4.7	475			S	S	T/A					
6.8	685		S	S	T/A		U/B		C	X	
10.0	106		S	T/A	T/A	U/B	U/B	C			
15.0	156		T/A	T/A	U/B	U/B	C		D/X		
22.0	226		T/A	U/B/A	U/B	C	V/C		X		
33.0	336	A	U/B/A	U/B	U/V/C/B	C		X			
47.0	476		U/B	U/C/B	V/C	V	D				
68.0	686		U/C/B	C	V/C	D	X				
100.0	107		C	V/C	V/D	D/X	X				
150.0	157		V/C	V/D	D/X	X					
220.0	227		V	D/X	D/X						
330.0	337		D	D/X	X						
470.0	477		X	X							

Note that standard values are preferred. Extended values are available for use where size constraints exist. Note that standard values demonstrate inherently lower failure rates than extended values, especially in low impedance applications.

Other Tantalum Surface Mount Series Available.

1. Low ESR- M94
2. Low ESR, Surge Robust- M95
3. Fail-Safe Fused- M96
4. Ultra Low ESR - M10

Call for information on these devices.



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