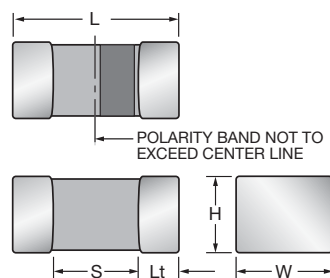
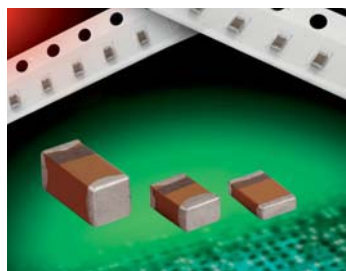


Low Profile



- The world's smallest surface mount tantalum capacitor
- CV range: 1.0-220µF / 2-16V
- 5 case sizes available in low profile option
- Industrial and hi-rel medical applications



CASE DIMENSIONS: millimeters (inches)

Code	EIA Code	EIA Metric	L+0.20 (0.008) -0.00 (0.000)	W+0.15 (0.006) -0.00 (0.000)	H max	Termination Spacing(S)	Minimum Termination Length (Lt)
H	0805	2012-10	2.00 (0.079)	1.35 (0.053)	1.00 (0.039)	0.70 (0.028) min	0.15 (0.006)
J	0603	1608-08	1.60 (0.063)	0.85 (0.033)	0.75 (0.030)	0.55 (0.022) min	0.15 (0.006)
T	1210	3528-12	3.50 ± 0.20 (0.138 ± 0.008)	2.80 ^{+0.20} _{-0.10} (0.110 ^{+0.008} _{-0.004})	1.20 (0.047)	2.00 (0.079) min	0.15 (0.006)
U	0805	2012-06	2.00 (0.079)	1.35 (0.053)	0.60 (0.024)	0.70 (0.028) min	0.15 (0.006)
V	1206	3216-08	3.20 ± 0.20 (0.126 ± 0.008)	1.60 ± 0.20 (0.063 ± 0.008)	0.75 (0.030)	1.80 (0.071) min	0.15 (0.006)

HOW TO ORDER

TAC Type TACmicrochip®	U Case Size See table above	475 Capacitance Code pF code: 1st two digits represent significant figures, 3rd digit represents multiplier (number of zeros to follow)	M Tolerance K=±10% M=±20%	004 Rated DC Voltage 002=2Vdc 003=3Vdc 004=4Vdc 006=6.3Vdc 010=10Vdc 016=16Vdc 035=35Vdc 050=50Vdc	R Packaging R = 7" Standard Tin Termination Plastic Tape X = 4 1/4" Standard Tin Termination Plastic Tape A = 7" Gold Termination Plastic Tape F = 4 1/4" Gold Termination Plastic Tape	TA Alternative characters may be used for special requirements
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TECHNICAL SPECIFICATIONS

Technical Data: All technical data relate to an ambient temperature of +25°C

Capacitance Range: 0.1 µF to 220 µF

Capacitance Tolerance: ±10%; ±20%

Leakage Current DCL: 0.01CV or 0.5µA whichever is the greater

Rated Voltage (V _R)	≤ +85°C:	2	3	4	6.3	10	16	35	50	
Category Voltage (V _C)	≤ +125°C:	1.3	2	2.7	4	7	10	23	33	
Surge Voltage (V _S)	≤ +85°C:	2.7	3.9	5.2	8	13	20	46	65	
Surge Voltage (V _S)	≤ +125°C:	1.7	2.6	3.2	5	8	12	28	40	

Temperature Range: -55°C to +125°C

Reliability: 1% per 1000 hours at 85°C, V_R with 0.1Ω/V series impedance, 60% confidence level

Termination Finish: Nickel and Tin Plating (standard),
Nickel and Gold Plating option available upon request

Low Profile

LOW PROFILE & CUSTOM RANGE (LETTER DENOTES CASE SIZE)

Capacitance		Voltage Rating DC (V _R) at 85°C							
µF	Code	2.0V	3.0V	4.0V	6.3V	10V	16V	35V	50V
0.10	104								H*
0.15	154								
0.22	224							H*	
0.33	334							H*	
0.47	474							H*	
0.68	684								
1.0	105						U ^(M)		
1.5	155					U ^(M)			
2.2	225								
3.3	335			U ^(M)	U ^(M)				
4.7	475								
6.8	685								
10	106	U ^(M)		J ^(M)	H	H/V			
15	156				H	V ^(M)			
22	226								
33	336			H		T			
47	476		H ^(M)						
68	686				T				
100	107				T ^(M)				
150	157								
220	227		T ^(M)						

Not recommended for new designs, higher voltage or smaller case size substitution are offered.

Released codes ^(M tolerance only)

Engineering samples - please contact manufacturer

*Codes under development - subject to change.

Standard Height Profile: A, B, K, L, R Case

Low Profile: H, J, T, U, V Case

Note: Voltage ratings are minimum values. AVX reserves the right to supply higher ratings in the same case size, to the same reliability standards.

RATINGS & PART NUMBER REFERENCE

AVX Part No.	EIA Code	EIA Metric	Case Size	Cap (µF)	Rated Voltage (V)	DCL (µA) Max.	DF % Max.	ESR Max. (Ω) @100kHz	MSL
2 Volt @ 85°C (1.3 Volt @ 125°C)									
TACU106M002#TA	0805	2012-06	U	10	2	0.5	8	5	1
3 Volt @ 40°C (2 Volt @ 125°C)									
TACH476M003#TA	0805	2012-10	H	47	3	1.4	20	5	1
TACT227M003#TA	1210	3528-12	T	220	3	6.6	20	1	1
4 Volt @ 85°C (2.7 Volt @ 125°C)									
TACU475M004#TA	0805	2012-06	U	4.7	4	0.5	8	5	1
TACJ106M004#TA	0603	1608-08	J	10	4	0.5	20	7.5	1
TACH336*004#TA	0805	2012-10	H	33	4	1.3	14	5	1
6.3 Volt @ 85°C (4 Volt @ 125°C)									
TACU335M006#TA	0805	2012-06	U	3.3	6.3	0.5	8	5	1
TACH156*006#TA	0805	2012-10	H	15	6.3	0.9	8	5	1
TACH226*006#TA	0805	2012-10	H	22	6.3	1.4	10	5	1
TACT686*006#TA	1210	3528-12	T	68	6.3	4.3	15	1	1
TACT107M006#TA	1210	3528-12	T	100	6.3	6.3	12	1	1
10 Volt @ 85°C (7 Volt @ 125°C)									
TACU225M010#TA	0805	2012-06	U	2.2	10	0.5	8	5	1
TACH106*010#TA	0805	2012-10	H	10	10	1.0	8	5	1
TACV106*010#TA	1206	3216-08	V	10	10	1.0	10	2	1
TACV156M010#TA	1206	3216-08	V	15	10	1.5	10	2	1
TACT476*010#TA	1210	3528-12	T	47	10	4.7	12	1	1
16 Volt @ 85°C (10 Volt @ 125°C)									
TACU105M016#TA	0805	2012-06	U	1	16	0.5	8	5	1

Moisture Sensitivity Level (MSL) is defined according to J-STD-020.

All technical data relates to an ambient temperature of +25°C. Capacitance and DF are measured at 120Hz, 0.5V RMS with a maximum DC bias of 2.2 volts.

DCL is measured at rated voltage after 5 minutes.

For typical weight and composition see page 150.

NOTE: AVX reserves the right to supply a higher voltage rating or tighter tolerance part in the same case size, to the same reliability standards.