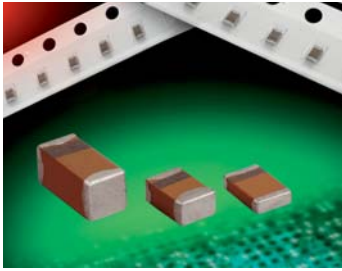


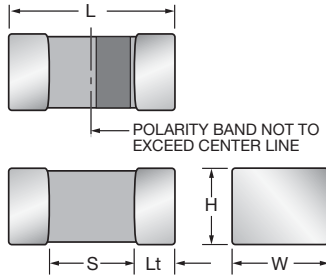
Low Profile



- The WW 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	Length (L)	Width (W)	Height (H)	Termination Spacing(S)	Minimum Termination Length (Lt)	Average Mass
H	0805	2012-10	2.00 ^{+0.20} / _{-0.00} (0.079 ^{+0.008} / _{-0.000})	1.35 ^{+0.15} / _{-0.00} (0.053 ^{+0.006} / _{-0.000})	1.00 max. (0.039 max.)	0.70 min. (0.027 min.)	0.15 (0.006)	17.1mg
J	0603	1608-08	1.60 ^{+0.20} / _{-0.00} (0.063 ^{+0.008} / _{-0.000})	0.85 ^{+0.15} / _{-0.00} (0.033 ^{+0.006} / _{-0.000})	0.75 max. (0.030 max.)	0.55 min. (0.022 min.)	0.15 (0.006)	5.8mg
T	1210	3528-12	3.50 ^{+0.20} / _{-0.20} (0.138 ^{+0.008} / _{-0.008})	2.80 ^{+0.20} / _{-0.10} (0.110 ^{+0.008} / _{-0.004})	1.20 max. (0.047 max.)	2.00 min. (0.079 min.)	0.15 (0.006)	65mg
U	0805	2012-06	2.00 ^{+0.20} / _{-0.00} (0.079 ^{+0.008} / _{-0.000})	1.35 ^{+0.15} / _{-0.00} (0.053 ^{+0.006} / _{-0.000})	0.60 max. (0.024 max.)	0.70 min. (0.027 min.)	0.15 (0.006)	8.9mg
V	1206	3216-08	3.20 ± 0.20 (0.126 ± 0.008)	1.60 ^{+0.20} / _{-0.10} (0.063 ^{+0.008} / _{-0.004})	0.75 max. (0.030 max.)	1.80 min. (0.071 min.)	0.15 (0.006)	19.1mg

HOW TO ORDER

TAC ↓ Type TACmicrochip®	U ↓ Case Size 0603=J 0805=U 0805=H 3528=T 1206=V	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	R ↓ Packaging (see table below)	TA ↓ Alternative characters may be used for special requirements
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Packaging Suffix

Reel Size	Standard Tin Termination Plastic Tape		Gold Termination Plastic Tape	
	H/J/T/U/V	H/J/T/U/V	H/J/T/U/V	H/J/T/U/V
7"	RTA	ATA		
4¼"	XTA	FTA		

TECHNICAL SPECIFICATIONS

Technical Data:	All technical data relate to an ambient temperature of +25°C						
Capacitance Range:	1.0 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
Category Voltage (V _C)	≤ +125°C:	1.3	2	2.7	4	7	10
Surge Voltage (V _S)	≤ +85°C:	2.7	3.9	5.2	8	13	20
Surge Voltage (V _S)	≤ +125°C:	1.7	2.6	3.2	5	8	12
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
1.0	105						U ^(M)
1.5	155						
2.2	225					U ^(M)	
3.3	335				U ^(M)		
4.7	475			U ^(M)			
6.8	685						
10	106	U ^(M)		J ^(M)		H/V ^(M)	
15	156				H	V ^(M)	
22	226				H		
33	336			H ^(M)			
47	476		H ^(M)			T	
68	686				T*		
100	107				T ^(M)		
150	157						
220	227		T ^(M)				

Released codes ^(M tolerance only)

*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
TACU106M002#TA	0805	2012-06	U	10	2	0.5	8	5
TACH476M003#TA	0805	2012-10	H	47	3	1.4	20	5
TACT227M003#TA	1210	3528-12	T	220	3	6.6	20	1
TACU475M004#TA	0805	2012-06	U	4.7	4	0.5	8	5
TACJ106M004#TA	0603	1608-08	J	10	4	0.5	20	7.5
TACH336M004#TA	0805	2012-10	H	33	4	1.3	14	5
TACU335M006#TA	0805	2012-06	U	3.3	6.3	0.5	8	5
TACH156*006#TA	0805	2012-10	H	15	6.3	0.9	8	5
TACH226*006#TA	0805	2012-10	H	22	6.3	1.4	10	5
TACT686*006#TA	1210	3528-12	T	68	6.3	4.3	12	1
TACT107M006#TA	1210	3528-12	T	100	6.3	6.3	12	1
TACU225M010#TA	0805	2012-06	U	2.2	10	0.5	8	5
TACH106*010#TA	0805	2012-10	H	10	10	1.0	8	5
TACV106M010#TA	1206	3216-08	V	10	10	1.0	10	2
TACV156M010#TA	1206	3216-08	V	15	10	1.5	10	2
TACT476*010#TA	1210	3528-12	T	47	10	4.7	12	1
TACU105M016#TA	0805	2012-06	U	1	16	0.5	8	5

* Insert K for ±10% and M for ±20% Capacitance Tolerance

Refers to termination finished and packaging reel size

MSL level: See page 114 (6. Moisture Sensitivity Level) or packaging and reel label.

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.

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.