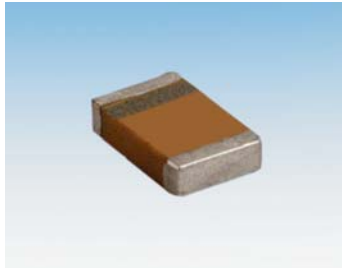


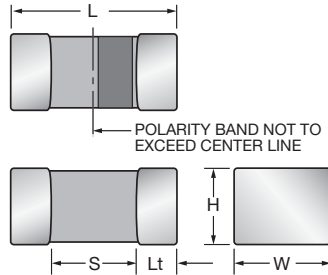
Low Profile



TAC low profile solid tantalum chip capacitors are extension of TACmicrochip® line for boards with limited height. The capacitors are available in maximum height as low as 0.6 mm.



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	B Footprint	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	3528-08	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	U	475	M	004	R	TA
Type	Case Size	Capacitance Code	Tolerance	Rated DC Voltage	Packaging	Alternative characters may be used for special requirements
TACmicrochip®	0603=J 0805=U 0805=H 3528=T 1206=V	pF code: 1st two digits represent significant figures, 3rd digit represents multiplier (number of zeros to follow)	K=±10% M=±20%	002=2Vdc 003=3Vdc 004=4Vdc 006=6.3Vdc 010=10Vdc 016=16Vdc	(see table below)	

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 1.5 2.2	105 155 225					U	U
3.3 4.7 6.8	335 475 685			U	U		
10 15 22	106 156 226	U		J	H H	H/V V	
33 47 68	336 476 686		H	H		T	
100 150 220	107 157 227		T		T		

RATINGS & PART NUMBER REFERENCE

AVX Part No.	EIA	Case Size	Capacitance (µF)	Rated Voltage (V)	DCL (µA) Max.	DF % Max.	ESR Max. (Ω) @100kHz
TACU106M002#	0805	U	10	2	0.5	8	5
TACH476M003#	0805	H	47	3	1.4	20	5
TACT227M003#	3528-12**	T	220	3	6.6	20	1
TACU475M004#	0805	U	4.7	4	0.5	8	5
TACH336M004#	0805	H	33	4	1.3	14	5
TACJ106M004#	0603	J	10	4	0.5	20	7.5
TACU335M006#	0805	U	3.3	6.3	0.5	8	5
TACH156*006#	0805	H	15	6.3	0.9	8	5
TACH226*006#	0805	H	22	6.3	1.4	10	5
TACT107M006#	3528-12**	T	100	6.3	6.3	12	1
TACU225M010#	0805	U	2.2	10	0.5	8	5
TACH106M010#	0805	H	10	10	1.0	8	5
TACV106M010#	1206	V	10	10	1.0	10	2
TACV156M010#	1206	V	15	10	1.5	10	2
TACT476M010#	3528-12**	T	47	10	4.7	12	1
TACU105M016#	0805	U	1.0	16	0.5	8	5

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.

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

Refer to packaging suffix for options

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.

** EIA Metric

Standard Height Profile: K, L, R, A Case
Low Profile: J, U, H, T, V Case