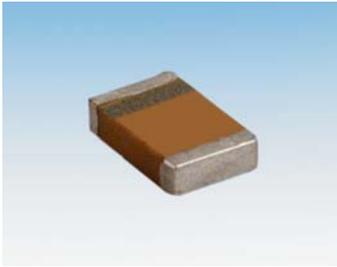


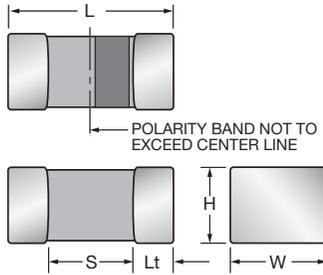
## Low Profile



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 <sup>+0.20</sup> <sub>-0.00</sub> (0.079 <sup>+0.008</sup> <sub>-0.000</sub> )	1.35 <sup>+0.15</sup> <sub>-0.00</sub> (0.053 <sup>+0.006</sup> <sub>-0.000</sub> )	1.00 max. (0.039 max.)	0.70 min. (0.027 min.)	0.15 (0.006)	17.1mg
J	0603	1608-08	1.60 <sup>+0.20</sup> <sub>-0.00</sub> (0.063 <sup>+0.008</sup> <sub>-0.000</sub> )	0.85 <sup>+0.15</sup> <sub>-0.00</sub> (0.033 <sup>+0.006</sup> <sub>-0.000</sub> )	0.75 max. (0.030 max.)	0.55 min. (0.022 min.)	0.15 (0.006)	5.8mg
T	1210	3528-12	3.50 <sup>+0.20</sup> <sub>-0.20</sub> (0.138 <sup>+0.008</sup> <sub>-0.008</sub> )	2.80 <sup>+0.20</sup> <sub>-0.10</sub> (0.110 <sup>+0.008</sup> <sub>-0.004</sub> )	1.20 max. (0.047 max.)	2.00 min. (0.079 min.)	0.15 (0.006)	65mg
U	0805	2012-06	2.00 <sup>+0.20</sup> <sub>-0.00</sub> (0.079 <sup>+0.008</sup> <sub>-0.000</sub> )	1.35 <sup>+0.15</sup> <sub>-0.00</sub> (0.053 <sup>+0.006</sup> <sub>-0.000</sub> )	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 <sup>+0.20</sup> <sub>-0.10</sub> (0.063 <sup>+0.008</sup> <sub>-0.004</sub> )	0.75 max. (0.030 max.)	1.80 min. (0.071 min.)	0.15 (0.006)	19.1mg

### HOW TO ORDER

<b>TAC</b> ↓ Type TACmicrochip®	<b>U</b> ↓ Case Size 0603=J 0805=U 0805=H 3528=T 1206=V	<b>475</b> ↓ Capacitance Code pF code: 1st two digits represent significant figures, 3rd digit represents multiplier (number of zeros to follow)	<b>M</b> ↓ Tolerance K=±10% M=±20%	<b>004</b> ↓ Rated DC Voltage 002=2Vdc 003=3Vdc 004=4Vdc 006=6.3Vdc 010=10Vdc 016=16Vdc	<b>R</b> ↓ Packaging (see table below)	<b>TA</b> ↓ 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 <sub>R</sub> )	≧ +85°C:	2	3	4	6.3	10	16
Category Voltage (V <sub>C</sub> )	≧ +125°C:	1.3	2	2.7	4	7	10
Surge Voltage (V <sub>S</sub> )	≧ +85°C:	2.7	3.9	5.2	8	13	20
Surge Voltage (V <sub>S</sub> )	≧ +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 <sub>R</sub> 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 <sub>R</sub> ) at 85°C					
µF	Code	2.0V	3.0V	4.0V	6.3V	10V	16V
1.0	105						U <sup>(M)</sup>
1.5	155						
2.2	225					U <sup>(M)</sup>	
3.3	335				U <sup>(M)</sup>		
4.7	475			U <sup>(M)</sup>			
6.8	685						
10	106	U <sup>(M)</sup>		J <sup>(M)</sup>		H/V <sup>(M)</sup>	
15	156				H	V <sup>(M)</sup>	
22	226				H		
33	336			H <sup>(M)</sup>			
47	476		H <sup>(M)</sup>			T	
68	686						
100	107				T <sup>(M)</sup>		
150	157						
220	227		T <sup>(M)</sup>				

Release Codes <sup>(M tolerance only)</sup>

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

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

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