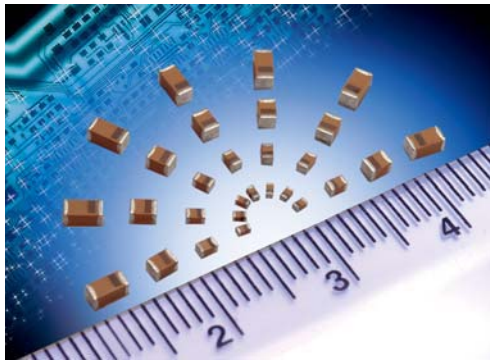


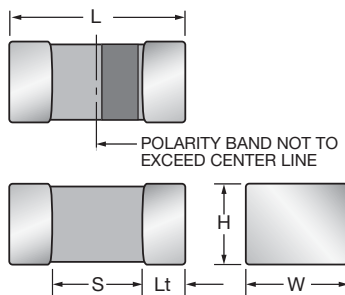
Standard Microchip



- The world's smallest surface mount tantalum capacitor
- CV range: 0.47-150µF / 2-25V
- 5 case sizes available
- Low profile options available
- 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
A	1206	3216-18	3.20±0.20 (0.126±0.008)	1.60±0.20 (0.063±0.008)	1.60±0.20 (0.063±0.008)	1.80 min. (0.071 min.)	0.15 (0.006)	44.6mg
B	1210	3528-15	3.50 ^{+0.20} _{-0.20} +0.008 -0.008	2.80 ^{+0.20} _{-0.10} +0.008 -0.004	1.50 max.	2.00 min.	0.15 min.	90.0mg
K	0402	1005-07	1.00 ^{+0.20} _{-0.00} +0.008 -0.000	0.50 ^{+0.20} _{-0.00} +0.008 -0.000	0.50 ^{+0.20} _{-0.00} +0.008 -0.000	0.40 min. (0.016 min.)	0.10 (0.004)	2.8mg
L	0603	1608-10	1.60 ^{+0.20} _{-0.00} +0.008 -0.000	0.85 ^{+0.15} _{-0.00} +0.006 -0.000	0.85 ^{+0.15} _{-0.00} +0.006 -0.000	0.55 min. (0.022 min.)	0.15 (0.006)	8.6mg
R	0805	2012-15	2.00 ^{+0.20} _{-0.00} +0.008 -0.000	1.35 ^{+0.15} _{-0.00} +0.006 -0.000	1.35 ^{+0.15} _{-0.00} +0.006 -0.000	0.70 min. (0.027 min.)	0.15 (0.006)	29.9mg

HOW TO ORDER

TAC	L	226	M	004	R	TA
Type TACmicrochip®	Case Size See table above	Capacitance Code pF code: 1st two digits represent significant figures, 3rd digit represents multiplier (number of zeros to follow)	Tolerance K=±10% M=±20%	Rated DC Voltage 002=2Vdc 003=3Vdc 004=4Vdc 006=6.3Vdc 010=10Vdc 016=16Vdc 020=20Vdc 025=25Vdc 050=50Vdc	Packaging R, P = 7" Standard Tin Termination Plastic Tape X, Q = 4 1/4" Standard Tin Termination Plastic Tape A = 7" Gold Termination Plastic Tape F = 4 1/4" Gold Termination Plastic Tape	Alternative characters may be used for special requirements

TECHNICAL SPECIFICATIONS

Technical Data:	All technical data relate to an ambient temperature of +25°C										
Capacitance Range:	0.10 µF to 150 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	20	25	50	
Category Voltage (V _C)	≤ +125°C:	1.3	2	2.7	4	7	10	13	17	33	
Surge Voltage (V _S)	≤ +85°C:	2.7	3.9	5.2	8	13	20	26	32	65	
Surge Voltage (V _S)	≤ +125°C:	1.7	2.6	3.2	5	8	12	16	20	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										

Standard Microchip

STANDARD COMMERCIAL RANGE (EIA SIZES) (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	20V	25V	50V
0.10 0.15 0.22	104 154 224							K*		
0.33 0.47 0.68	334 474 684					K ^(M) /L K ^(M) /L	L L			
1.0 1.5 2.2	105 155 225		K ^(M) /L	L L	K/L L K ^(M) /L	K/L L L	L L		R	A*
3.3 4.7 6.8	335 475 685	K ^(M) /L K ^(M) /L K ^(M) /L	K ^(M) /L K ^(M) /L L	L L L	L L L/R	L/R L/R L/R	R*	R ^(M) R ^(M)	A*	
10 15 22	106 156 226	K ^(M) /L R R	L R L ^(M) /R	L/R L ^(M) /R L ^(M) /R	L ^(M) /R L ^(M) /R R	L/R R R	R			
33 47 68	336 476 686	R R R ^(M)	R R R ^(M)	R R A ^(M)	R A/R ^(M) A ^(M) *	A ^(M) /B ^(M) /R ^(M) B				
100 150 220	107 157 227	A ^(M)	A ^(M) /R ^(M)	A ^(M) /R ^(M)	A ^(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.

