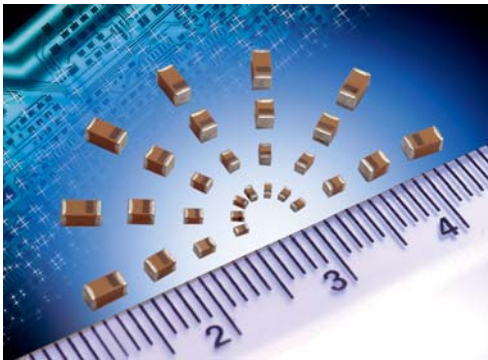


Standard Microchip



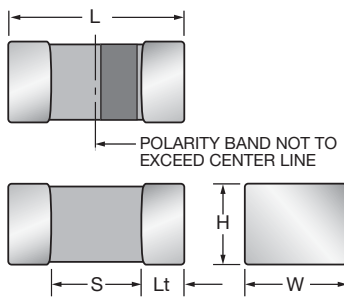
- The world's smallest surface mount tantalum capacitor
- CV range: 0.10-150µF / 2-25V
- 5 case sizes available
- Low profile options available
- Industrial and hi-rel medical applications



LEAD-FREE
LEAD-FREE COMPATIBLE
COMPONENT



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+0.15 (0.006) -0.00 (0.000)	Termination Spacing(S)	Minimum Termination Length (Lt)
A	1206	3216-18	3.20 ± 0.20 (0.126 ± 0.008)	1.60 ± 0.20 (0.060 ± 0.008)	1.60 ± 0.20 (0.063 ± 0.008)	1.80 (0.071) min	0.15 (0.006)
B	1210	3528-15	3.50 ± 0.20 (0.138 ± 0.008)	2.80 +0.20 -0.10 (0.110 +0.008 -0.004)	1.50 (0.059) max	2.00 (0.079) min	0.15 (0.006)
K	0402	1005-07	1.00 (0.039)	0.50 +0.20 -0.00 (0.020 +0.008 -0.000)	0.50 +0.20 -0.00 (0.020 +0.008 -0.000)	0.40 (0.016) min	0.10 (0.004)
L	0603	1608-10	1.60 (0.063)	0.85 (0.033)	0.85 (0.033)	0.55 (0.022) min	0.15 (0.006)
R	0805	2012-15	2.00 (0.079)	1.35 (0.053)	1.35 (0.053)	0.70 (0.027) min	0.15 (0.006)

HOW TO ORDER

TAC Type TACmicrochip®	L Case Size See table above	226 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 020=20Vdc 025=25Vdc 035=35Vdc 050=50Vdc	R 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	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:	0.10 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	35	50
Category Voltage (V _C)	≤ +125°C:	1.3	2	2.7	4	7	10	13	17	23	33
Surge Voltage (V _S)	≤ +85°C:	2.7	3.9	5.2	8	13	20	26	32	46	65
Surge Voltage (V _S)	≤ +125°C:	1.7	2.6	3.2	5	8	12	16	20	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										

CAPACITANCE AND RATED VOLTAGE 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	20V	25V	35V	50V
0.10	104						K ^(M)	K*		L*	
0.15	154					K ^(M)	K ^(M)				
0.22	224					K ^(M)	K ^(M)	K ^(M)		L*	
0.33	334					K ^(M)	K ^(M)				
0.47	474					K ^(M) /L	L				
0.68	684					K ^(M) /L	L				
1.0	105				K/L	K/L	L		R		A*
1.5	155			L	L	L	L				
2.2	225		K ^(M) /L	L	K ^(M) /L	L	L				
3.3	335	K ^(M) /L	K ^(M) /L	L	L	L/R	R*	R ^(M)			
4.7	475	K ^(M) /L	K ^(M) /L	L	L	L/R		R ^(M)	A*		
6.8	685	K ^(M) /L	L	L	L/R	L/R					
10	106	K ^(M) /L	L	L/R	L ^(M) /R	L/R	R				
15	156		R	L ^(M) /R	L ^(M) /R	R					
22	226	R	L ^(M) /R	L ^(M) /R	R	R					
33	336	R	R	R	R	A ^(M) /B ^(M) /R ^(M)					
47	476	R	R	R	A/R ^(M)	B					
68	686	R ^(M)	R ^(M)	A ^(M)	A ^{(M)*}						
100	107		A ^(M) /R ^(M)	A ^(M) /R ^(M)	A ^(M)						
150	157	A ^(M)									
220	227										

ESR limits quoted in brackets (Ohms)

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.

