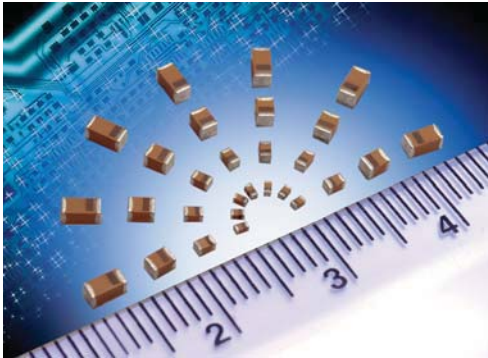


Standard Microchip



- 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



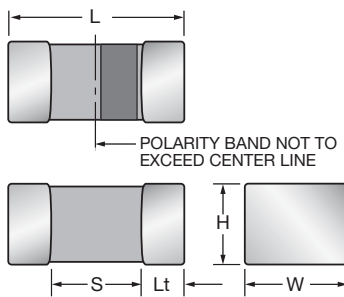
LEAD-FREE

LEAD-FREE COMPATIBLE COMPONENT



RoHS COMPLIANT

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} (0.138 -0.008)	2.80 ^{+0.20} _{-0.10} ^{+0.008} _{-0.004} (0.110 -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} (0.039 -0.000)	0.50 ^{+0.20} _{-0.00} ^{+0.008} _{-0.000} (0.020 -0.000)	0.50 ^{+0.20} _{-0.00} ^{+0.008} _{-0.000} (0.020 -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} (0.063 -0.000)	0.85 ^{+0.15} _{-0.00} ^{+0.006} _{-0.000} (0.033 -0.000)	0.85 ^{+0.15} _{-0.00} ^{+0.006} _{-0.000} (0.033 -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} (0.079 -0.000)	1.35 ^{+0.15} _{-0.00} ^{+0.006} _{-0.000} (0.053 -0.000)	1.35 ^{+0.15} _{-0.00} ^{+0.006} _{-0.000} (0.053 -0.000)	0.70 min. (0.027 min.)	0.15 (0.006)	29.9mg

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										

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	35V	50V
0.10	104						K ^(M)	K*		L*	
0.15	154						K ^(M)			L*	
0.22	224						K ^(M)			L*	
0.33	334						K ^(M)				
0.47	474						K(15) ^(M) /K(25) ^(M) /L				
0.68	684						K ^(M) /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	R	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.

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	MSL
2 Volt @ 85°C (1.3 Volt @ 125°C)									
TACK335M002#TA	0402	1005-07	K	3.3	2	0.5	8	15	1
TACL335*002#TA	0603	1608-10	L	3.3	2	0.5	6	7.5	1
TACK475M002#TA	0402	1005-07	K	4.7	2	0.5	12	15	1
TACL475*002#TA	0603	1608-10	L	4.7	2	0.5	6	7.5	1
TACK685M002#TA	0402	1005-07	K	6.8	2	0.5	20	15	1
TACL685*002#TA	0603	1608-10	L	6.8	2	0.5	6	7.5	1
TACK106M002#TA	0402	1005-07	K	10	2	0.5	15	15	1
TACL106*002#TA	0603	1608-10	L	10	2	0.5	10	7.5	1
TACK226*002#TA	0805	2012-15	R	22	2	0.5	8	5	1
TACK336*002#TA	0805	2012-15	R	33	2	0.7	10	5	1
TACK476*002#TA	0805	2012-15	R	47	2	0.9	10	5	1
TACK686M002#TA	0805	2012-15	R	68	2	1.4	14	5	1
TACA157M002#TA	1206	3216-18	A	150	2	3	20	1	1
3 Volt @ 85°C (2 Volt @ 125°C)									
TACK225M003#TA	0402	1005-07	K	2.2	3	0.5	6	15	1
TACL225*003#TA	0603	1608-10	L	2.2	3	0.5	6	7.5	1
TACK335M003#TA	0402	1005-07	K	3.3	3	0.5	8	15	1
TACL335*003#TA	0603	1608-10	L	3.3	3	0.5	6	7.5	1
TACK475M003#TA	0402	1005-07	K	4.7	3	0.5	12	15	1
TACL475*003#TA	0603	1608-10	L	4.7	3	0.5	6	7.5	1
TACK685*003#TA	0603	1608-10	L	6.8	3	0.5	6	7.5	1
TACL106*003#TA	0603	1608-10	L	10	3	0.5	10	7.5	1
TACK156*003#TA	0805	2012-15	R	15	3	0.5	8	5	1
TACK226M003#TA	0603	1608-10	L	22	3	0.7	20	7.5	1
TACK226*003#TA	0805	2012-15	R	22	3	0.7	8	5	1
TACK336*003#TA	0805	2012-15	R	33	3	1	10	5	1
TACK476*003#TA	0805	2012-15	R	47	3	1.5	10	5	1
TACK686M003#TA	0805	2012-15	R	68	3	2	14	5	1
TACA107M003#TA	1206	3216-18	A	100	3	3	15	1	1
TACK107M003#TA	0805	2012-15	R	100	3	3	30	5	1
4 Volt @ 85°C (2.7 Volt @ 125°C)									
TACL155*004#TA	0603	1608-10	L	1.5	4	0.5	6	7.5	1
TACL225*004#TA	0603	1608-10	L	2.2	4	0.5	6	7.5	1
TACL335*004#TA	0603	1608-10	L	3.3	4	0.5	6	7.5	1
TACL475*004#TA	0603	1608-10	L	4.7	4	0.5	6	7.5	1
TACL685*004#TA	0603	1608-10	L	6.8	4	0.5	8	7.5	1
TACL106*004#TA	0603	1608-10	L	10	4	0.5	10	7.5	1
TACK106*004#TA	0805	2012-15	R	10	4	0.5	8	5	1
TACK156M004#TA	0603	1608-10	L	15	4	0.6	20	7.5	1
TACK156*004#TA	0805	2012-15	R	15	4	0.6	8	5	1
TACK226M004#TA	0603	1608-10	L	22	4	0.9	20	7.5	1
TACK226*004#TA	0805	2012-15	R	22	4	0.9	8	5	1
TACK336*004#TA	0805	2012-15	R	33	4	1.3	10	5	1
TACK476*004#TA	0805	2012-15	R	47	4	1.9	14	5	1
TACK686M004#TA	1206	3216-18	A	68	4	2.7	15	1	1
TACA107M004#TA	1206	3216-18	A	100	4	4	20	1	1
TACK107M004#TA	0805	2012-15	R	100	4	4	30	5	1
6.3 Volt @ 85°C (4 Volt @ 125°C)									
TACK105*006#TA	0402	1005-07	K	1	6.3	0.5	6	15	1
TACL105*006#TA	0603	1608-10	L	1	6.3	0.5	6	7.5	1
TACL155*006#TA	0603	1608-10	L	1.5	6.3	0.5	6	7.5	1
TACK225M006#TA	0402	1005-07	K	2.2	6.3	0.5	8	15	1
TACL225*006#TA	0603	1608-10	L	2.2	6.3	0.5	6	7.5	1
TACL335*006#TA	0603	1608-10	L	3.3	6.3	0.5	6	7.5	1
TACL475*006#TA	0603	1608-10	L	4.7	6.3	0.5	8	7.5	1
TACL685*006#TA	0603	1608-10	L	6.8	6.3	0.5	10	7.5	1
TACK685*006#TA	0805	2012-15	R	6.8	6.3	0.5	8	5	1

AVX Part No.	EIA Code	EIA Metric	Case Size	Cap (µF)	Rated Voltage (V)	DCL (µA) Max.	DF % Max.	ESR Max. (Ω) @100kHz	MSL
TACL106M006#TA	0603	1608-10	L	10	6.3	0.6	10	6	1
TACK106*006#TA	0805	2012-15	R	10	6.3	0.6	8	5	1
TACL156M006#TA	0603	1608-10	L	15	6.3	0.9	20	7.5	1
TACK156*006#TA	0805	2012-15	R	15	6.3	0.9	8	5	1
TACK226*006#TA	0805	2012-15	R	22	6.3	1.4	10	5	1
TACK336*006#TA	0805	2012-15	R	33	6.3	2.1	12	5	1
TACK476*006#TA	1206	3216-18	A	47	6.3	3	15	1	1
TACK476M006#TA	0805	2012-15	R	47	6.3	3	20	5	1
TACK686M006#TA	1206	3216-18	A	68	6.3	4.3	15	1	1
TACA107M006#TA	1206	3216-18	A	100	6.3	6.3	20	1	1
10 Volt @ 85°C (7 Volt @ 125°C)									
TACK154M010#TA	0402	1005-07	K	0.15	10	0.5	6	40	1
TACK224M010#TA	0402	1005-07	K	0.22	10	0.5	6	30	1
TACK334M010#TA	0402	1005-07	K	0.33	10	0.5	6	20	1
TACK474M010#TA	0402	1005-07	K	0.47	10	0.5	6	15	1
TACK474M010#FM	0402	1005-07	K	0.47	10	0.5	6	25	1
TACL474*010#TA	0603	1608-10	L	0.47	10	0.5	6	7.5	1
TACK684M010#TA	0402	1005-07	K	0.68	10	0.5	8	15	1
TACK684*010#TA	0603	1608-10	L	0.68	10	0.5	6	7.5	1
TACK105*010#TA	0402	1005-07	K	1	10	0.5	6	15	1
TACL105*010#TA	0603	1608-10	L	1	10	0.5	6	7.5	1
TACL155*010#TA	0603	1608-10	L	1.5	10	0.5	6	7.5	1
TACL225*010#TA	0603	1608-10	L	2.2	10	0.5	6	7.5	1
TACL335*010#TA	0603	1608-10	L	3.3	10	0.5	8	7.5	1
TACK335*010#TA	0805	2012-15	R	3.3	10	0.5	8	5	1
TACL475*010#TA	0603	1608-10	L	4.7	10	0.5	10	6	1
TACK475*010#TA	0805	2012-15	R	4.7	10	0.5	8	6	1
TACK685*010#TA	0603	1608-10	L	6.8	10	0.7	20	7.5	1
TACK685*010#TA	0805	2012-15	R	6.8	10	0.7	8	5	1
TACL106*010#TA	0603	1608-10	L	10	10	1	20	7.5	1
TACK106*010#TA	0805	2012-15	R	10	10	1	8	5	1
TACK156*010#TA	0805	2012-15	R	15	10	1.5	10	5	1
TACK226*010#TA	0805	2012-15	R	22	10	2.2	14	5	1
TACK336*010#TA	1206	3216-18	A	33	10	3.3	12	1	1
TACK336*010#TA	1210	3528-15	B	33	10	3.3	15	1	1
TACK336M010#TA	0805	2012-15	R	33	10	3.3	20	5	1
TACK476*010#TA	1210	3528-15	B	47	10	4.7	15	1	1
16 Volt @ 85°C (10 Volt @ 125°C)									
TACK104M016#TA	0402	1005-07	K	0.1	16	0.5	6	40	1
TACK154M016#TA	0402	1005-07	K	0.15	16	0.5	6	30	1
TACK224M016#TA	0402	1005-07	K	0.22	16	0.5	6	20	1
TACK334M016#TA	0402	1005-07	K	0.33	16	0.5	6	20	1
TACL474*016#TA	0603	1608-10	L	0.47	16	0.5	6	7.5	1
TACK684*016#TA	0603	1608-10	L	0.68	16	0.5	6	7.5	1
TACL105*016#TA	0603	1608-10	L	1	16	0.5	6	7.5	1
TACL225*016#TA	0603	1608-10	L	2.2	16	0.5	10	7.5	1
TACK335*016#TA	0805	2012-15	R	3.3	16	0.5	8	5	1
TACK106*016#TA	0805	2012-15	R	10	16	1.6	10	5	1
20 Volt @ 85°C (13 Volt @ 125°C)									
TACK104*020#TA	0402	1005-07	K	0.10	20	0.5	6	40	1
TACK335M020#TA	0805	2012-15	R	3.3	20	0.7	8	5	1
TACK475M020#TA	0805	2012-15	R	4.7	20	0.9	8	5	1
25 Volt @ 85°C (17 Volt @ 125°C)									
TACK105*025#TA	0805	2012-15	R	1	25	0.5	8	5	1
TACK475*025#TA	1206	3216-18	A	4.7	25	1.2	8	1	1
50 Volt @ 85°C (33 Volt @ 125°C)									
TACK105*050#TA	1206	3216-18	A	1.0	50	0.5	6	1	1

Moisture Sensitivity Level (MSL) is defined according to J-STD-020.

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.

For typical weight and composition see page 123.

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.

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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