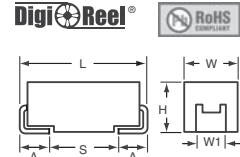


AVX THJ Series — High Temperature Tantalum Capacitors

They combine high temperature operation and higher basic reliability for optimal performance in high temperature automotive and industry applications. The operational temperature is up to 175°C with derating voltage. The level of reliability of this tantalum product is 0.5%/1000 hours of rated voltage, rated temperature and 0.1Ω/volt circuit impedance. The capacitors are produced in black encapsulation with white polarity marking. **Specifications:** Maximum Operating Temperature: up to 175°C with 50% derating

Case Size	EIA Metric	Dimensions - mm					
		L ±0.20	W ±0.20/-0.10	H ±0.20/-0.10	W1 ±0.20 (0.008)	A +0.30	S (Min)
A	3216-18	3.20	1.60	1.60	1.20	0.80	1.10
B	3528-21	3.50	2.80	1.90	2.20	0.80	1.40
C	6032-28	6.00	3.20	2.60	2.20	1.30	2.90
D	7343-31	7.30	4.30	2.90	2.40	1.30	4.40
E	7343-43	7.30	4.30	4.10	2.40	1.30	4.40



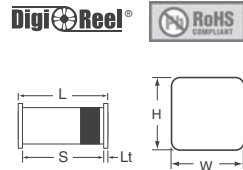
Rated Voltage (V)	Capacitance (µF)	Capacitance Tolerance (%)	Case Size	DF % Max.	DCL (µA) Max.	ESR Max. (Ω) @100kHz	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		AVX Part No.
								1	10	100		Qty.	Pricing	
6.3	33	20	B	6	1.9	2.2	478-5703-1-ND	.54	.48	.42	478-5703-2-ND	2,000	183.79/M	THJB336M006RJN
			D	6	10	0.9	478-5708-1-ND	1.63	1.42	1.24	478-5708-2-ND	500	296.40	THJD107K010RJN
			E	10	22	0.25	478-5639-1-ND	54.05	47.03	41.09	478-5639-2-ND	400	7870.26	THJE227K010AJH
10	100	10	A	6	0.5	6.5	478-5702-1-ND	.35	.31	.27	478-5702-2-ND	2,000	117.81/M	THJA225K016RJN
			A	6	0.5	5.0	478-5697-1-ND	.35	.31	.27	478-5697-2-ND	2,000	117.81/M	THJA335K016RJN
			A	4.5	0.8	2.9	478-3851-1-ND	.40	.35	.31	478-3851-2-ND	2,000	135.83/M	THJA475K016RJN
			B	6	2.4	2.0	478-5698-1-ND	.55	.48	.42	478-5698-2-ND	2,000	187.11/M	THJB156K016RJN
			C	6	3.5	1.6	478-5706-1-ND	.87	.76	.66	478-5706-2-ND	500	157.66	THJC226K016RJN
			D	6	7.5	0.9	478-3852-1-ND	1.39	1.21	1.06	478-3852-2-ND	500	252.25	THJD476K016RJN
			D	4.5	10.9	0.9	478-5714-1-ND	1.59	1.39	1.22	478-5714-2-ND	500	290.09	THJD686K016RJN
16	15	10	E	8	16	0.25	478-5640-1-ND	49.20	42.81	37.40	478-5640-2-ND	400	7163.96	THJE107K016AJH
			D	6	6.6	0.9	478-5712-1-ND	2.49	2.17	1.89	478-5712-2-ND	500	452.18	THJD336M020RJN
			C	6	2.5	1.8	478-5704-1-ND	1.00	.87	.76	478-5704-2-ND	500	181.57	THJC106K025RJN
20	10	20	C	6	2.5	1.8	478-5705-1-ND	1.00	.87	.76	478-5705-2-ND	500	181.57	THJC106M025RJN
			A	4	0.5	24	478-5701-1-ND	.80	.70	.61	478-5701-2-ND	2,000	270.97/M	THJA104K035RJN
			C	6	1.2	2.5	478-5699-1-ND	.80	.70	.61	478-5699-2-ND	500	145.18	THJC335K035RJN
35	10	10	C	6	1.6	2.2	478-5707-1-ND	.89	.77	.68	478-5707-2-ND	500	160.81	THJC475K035RJN
			D	6	3.5	1.0	478-3855-1-ND	1.39	1.22	1.06	478-3855-2-ND	500	253.64	THJD106K035RJN
			D	6	5.3	0.9	478-5709-1-ND	1.56	1.36	1.19	478-5709-2-ND	500	283.78	THJD156M035RJN
			D	6	7.7	0.6	478-5710-1-ND	2.25	1.96	1.72	478-5710-2-ND	500	409.91	THJD226K035RJN
			D	6	7.7	0.6	478-5711-1-ND	2.18	1.90	1.66	478-5711-2-ND	500	397.30	THJD226M035RJN
			D	6	7.7	0.3	478-4753-1-ND	8.56	7.45	6.51	478-4753-2-ND	500	1557.52	THJD226K035R0300
			E	6	11.6	0.5	478-5700-1-ND	5.89	5.13	4.48	478-5700-2-ND	400	857.66	THJE336K035RJN
50	10	10	D	6	1.7	1.1	478-6165-1-ND	4.37	3.80	3.32	478-6165-2-ND	500	794.52	THJD335K050RJN
			D	6	2.4	0.9	478-5713-1-ND	4.33	3.77	3.30	478-5713-2-ND	500	788.29	THJD475K050RJN
			D	6	3.4	0.7	478-6166-1-ND	4.33	3.77	3.30	478-6166-2-ND	500	788.29	THJD685K050RJN
			D	6	5.0	0.7	478-6163-1-ND	4.37	3.80	3.32	478-6163-2-ND	500	794.52	THJD106K050RJN
			E	6	5.0	0.7	478-6164-1-ND	7.28	6.34	5.54	478-6164-2-ND	400	1059.46	THJE106K050RJN

F

TAC and TPC Series — Standard Microchip Surface Mount Tantalum Capacitors

TAC Series: The world's smallest surface mount tantalum capacitor, small enough to create space providing room for ideas to grow. TACmicrochip™ is a major breakthrough in miniaturization without reduction in performance. It offers the highest energy store in a small case down to 0402. Enhanced high frequency operation through unique ESR performance with temperature and voltage stability also offered. **TPC Series:** Offers lower ESR feature to TACmicrochip® solid tantalum capacitors. The low ESR TPC capacitors improve performance of power supplies in miniature case sizes such as 0603 and 0805.

Case Size	EIA Code	EIA Metric	Dimensions - mm			Minimum Termination	
			L	W	H	Spacing (S)	Length (Lt)
A	1206	3216-18	3.20	1.60	1.60	1.80	0.15
H	0805	2012-10	2.00	1.35	1.00	0.70	0.15
K	0402	1005-07	1.00	0.50	0.50	0.40	0.10
L	0603	1608-10	1.60	0.85	0.85	0.55	0.15
R	0805	2012-15	2.00	1.35	1.35	0.70	0.15
T	3528	3528-12	3.50	2.80	1.20	2.00	0.15
U	0805	2012-06	2.00	1.35	0.60	0.70	0.15
V	1206	3528-08	3.20	1.60	0.75	1.80	0.15



Rated Voltage (V)	Capacitance (µF)	Capacitance Tolerance (%)	Case Size	DF % Max.	DCL (µA) Max.	ESR Max. (Ω) @100kHz	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		AVX Part No.			
								1	10	100		Qty.	Pricing				
TAC Series																	
3.0	4.7	20	K	12	0.5	15.0	478-3255-1-ND†	5.13	4.47	3.90	478-3255-2-ND	1,000	1866.94	TACK475M003QTA			
			R	30	3.0	5.0	478-3256-1-ND†	2.95	2.57	2.24	478-3256-2-ND	500	536.04	TACR107M003XTA			
			T	20	6.6	1.0	478-3257-1-ND†	3.38	2.94	2.57	478-3257-2-ND	500	615.04	TACT227M003XTA			
4.0	10	20	L	10	0.5	7.5	478-2549-1-ND	2.25	1.96	1.72	478-2549-2-ND	500	409.91	TACL106M004XTA			
			L	20	0.9	7.5	478-2550-1-ND†	2.25	1.96	1.72	478-2550-2-ND	500	409.91	TACL226M004XTA			
			R	14	1.9	5.0	478-3113-1-ND	2.95	2.57	2.24	478-3113-2-ND	500	536.04	TACR476M004XTA			
			A	20	4.0	1.0	478-2566-1-ND	3.81	3.32	2.90	478-2566-2-ND	500	693.69	TACA107M004XTA			
			R	30	4.0	5.0	478-4755-1-ND	2.95	2.57	2.24	478-4755-2-ND	2,500	1001.39/M	TACR107M004RTA			
6.3	1.5	20	L	6	0.5	7.5	478-2551-1-ND	2.25	1.96	1.72	478-2551-2-ND	500	409.91	TACL155M006XTA			
			K	8	0.5	15.0	478-2547-1-ND†	5.13	4.47	3.90	478-2547-2-ND	1,000	1866.94	TACK225M006QTA			
			L	6	0.5	7.5	478-2552-1-ND	2.25	1.96	1.72	478-2552-2-ND	500	409.91	TACL225M006XTA			
			L	10	0.6	6.0	478-2553-1-ND	2.95	2.57	2.24	478-2553-2-ND	500	536.04	TACL106M006XTA			
			R	8	0.6	5.0	478-4185-1-ND	2.95	2.57	2.24	478-4185-2-ND	500	536.04	TACR106K006XTA			
			10	20	20	R	8	0.6	5.0	478-2561-1-ND	1.91	1.66	1.45	478-2561-2-ND	500	346.85	TACR106M006XTA
						R	8	0.6	5.0	478-5225-1-ND	2.95	2.57	2.24	478-5225-2-ND	2,500	1001.39/M	TACR106M006RTA
						L	20	0.9	7.5	478-3114-1-ND†	2.25	1.96	1.72	478-3114-2-ND	500	409.91	TACL156M006XTA
						H	10	1.4	5.0	478-3258-1-ND†	2.95	2.57	2.24	478-3258-2-ND	500	536.04	TACH226M006XTA
						R	10	1.4	5.0	478-4188-1-ND	2.95	2.57	2.24	478-4188-2-ND	500	536.04	TACR226K006XTA
22	20	10	R	10	1.4	5.0	478-2562-1-ND	2.95	2.57	2.24	478-2562-2-ND	500	536.04	TACR226M006XTA			
			R	12	2.1	5.0	478-3115-1-ND	2.95	2.57	2.24	478-3115-2-ND	500	536.04	TACR336M006XTA			
			R	20	3.0	5.0	478-3259-1-ND†	2.95	2.57	2.24	478-3259-2-ND	500	536.04	TACR476M006XTA			

(Continued)

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