

# TAJ Series

## Standard Tantalum

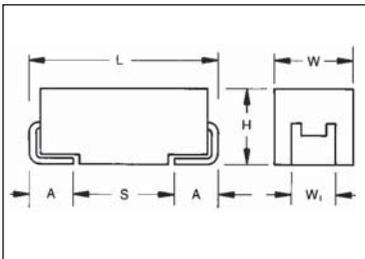


- General purpose SMT chip tantalum series
- 6 case sizes available
- Low profile options available
- CV range: 0.10-2200 $\mu$ F / 2.5-50V



*SnPb termination option is not RoHS compliant.*

### CASE DIMENSIONS: millimeters (inches)



Code	EIA Code	EIA Metric	L $\pm$ 0.20 (0.008)	W+0.20 (0.008) -0.10 (0.004)	H+0.20 (0.008) -0.10 (0.004)	W $\pm$ 0.20 (0.008)	A+0.30 (0.012) -0.20 (0.008)	S Min.
A	1206	3216-18	3.20 (0.126)	1.60 (0.063)	1.60 (0.063)	1.20 (0.047)	0.80 (0.031)	1.10 (0.043)
B	1210	3528-21	3.50 (0.138)	2.80 (0.110)	1.90 (0.075)	2.20 (0.087)	0.80 (0.031)	1.40 (0.055)
C	2312	6032-28	6.00 (0.236)	3.20 (0.126)	2.60 (0.102)	2.20 (0.087)	1.30 (0.051)	2.90 (0.114)
D	2917	7343-31	7.30 (0.287)	4.30 (0.169)	2.90 (0.114)	2.40 (0.094)	1.30 (0.051)	4.40 (0.173)
E	2917	7343-43	7.30 (0.287)	4.30 (0.169)	4.10 (0.162)	2.40 (0.094)	1.30 (0.051)	4.40 (0.173)
V	2924	7361-38	7.30 (0.287)	6.10 (0.240)	3.55 (0.140)	3.10 (0.120)	1.30 (0.051)	4.40 (0.173)

*W<sub>1</sub> dimension applies to the termination width for A dimensional area only.*

For part marking see page 132

### HOW TO ORDER

<b>TAJ</b>	<b>C</b>	<b>106</b>	<b>M</b>	<b>035</b>	<b>R</b>	<b>NJ</b>	<b>-</b>
<b>Type</b>	<b>Case Size</b> See table above	<b>Capacitance Code</b> pF code: 1st two digits represent significant figures 3rd digit represents multiplier (number of zeros to follow)	<b>Tolerance</b> K= $\pm$ 10% M= $\pm$ 20%	<b>Rated DC Voltage</b> 002=2.5Vdc 004=4Vdc 006=6.3Vdc 010=10Vdc 016=16Vdc 020=20Vdc 025=25Vdc 035=35Vdc 050=50Vdc	<b>Packaging</b> R = Pure Tin 7" Reel S = Pure Tin 13" Reel A = Gold Plating 7" Reel B = Gold Plating 13" Reel H = Tin Lead 7" Reel (Contact Manufacturer) K = Tin Lead 13" Reel (Contact Manufacturer) H, K = Non RoHS	<b>Specification Suffix</b> NJ = Standard Suffix	<b>Additional characters may be added for special requirements</b> V = Dry pack Option (selected codes only)

### TECHNICAL SPECIFICATIONS

Technical Data:	All technical data relate to an ambient temperature of +25°C										
Capacitance Range:	0.10 $\mu$ F to 2200 $\mu$ F										
Capacitance Tolerance:	$\pm$ 10%; $\pm$ 20%										
Rated Voltage (V <sub>R</sub> )	$\leq$ +85°C:	2.5	4	6.3	10	16	20	25	35	50	
Category Voltage (V <sub>C</sub> )	$\leq$ +125°C:	1.7	2.7	4	7	10	13	17	23	33	
Surge Voltage (V <sub>S</sub> )	$\leq$ +85°C:	3.3	5.2	8	13	20	26	32	46	65	
Surge Voltage (V <sub>S</sub> )	$\leq$ +125°C:	2.2	3.4	5	8	13	16	20	28	40	
Temperature Range:	-55°C to +125°C										
Reliability:	1% per 1000 hours at 85°C, V <sub>R</sub> with 0.1 $\Omega$ /V series impedance, 60% confidence level										
Qualification:	CECC 30801 - 005 issue 2 EIA 535BAAC										
Termination Finished:	Sn Plating (standard), Gold and SnPb Plating upon request For AEC-Q200 availability, please contact AVX										



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### CAPACITANCE AND RATED VOLTAGE, VR (VOLTAGE CODE) RANGE (LETTER DENOTES CASE SIZE)

Capacitance		Rated voltage DC (V <sub>R</sub> ) to 85°C								
µF	Code	2.5V (e)	4V (G)	6.3V (J)	10V (A)	16V (C)	20V (D)	25V (E)	35V (V)	50V (T)
0.10	104								A	A
0.15	154								A	A/B
0.22	224								A	A/B
0.33	334							A	A	A/B
0.47	474						A	A	A/B	A/B/C
0.68	684						A	A	A/B	A/B/C
1.0	105					A	A	A	A/B	A <sup>(M)</sup> /B/C
1.5	155				A	A	A	A/B	A/B/C	B/C/D
2.2	225			A	A	A/B	A/B	A/B	A/B/C	B/C/D
3.3	335		A	A	A	A/B	A/B	A/B/C	A/B/C	B/C
4.7	475		A	A	A/B	A/B	A/B/C	A/B/C	A/B/C	B/C/D
6.8	685		A	A/B	A/B	A/B/C	A/B/C	B/C	B/C	C/D
10	106		A	A/B	A/B/C	A/B/C	A <sup>(M)</sup> */B/C	B/C/D	C/D/E	D/E/V
15	156		A/B	A/B	A/B/C	A <sup>(M)</sup> /B/C	B/C/D	C/D	C/D	D/E/V
22	226		A	A/B/C	A/B/C	B/C/D	B/C/D	C/D	D/E	V
33	336	A	A/B	A/B/C	A/B/C/D	B/C/D	C/D	D/E	D/E/V	
47	476	A	A/B	A/B/C/D	B/C/D	C/D	C/D/E	D/E	D/E	
68	686	A	A/B/C	B/C/D	B/C/D	C/D	C <sup>(M)</sup> /D/E	E/V	E/V	
100	107	A/B	A/B/C	B/C/D	B <sup>(M)</sup> /C/D/E	C/D/E	D/E/V	E <sup>(M)</sup> /V		
150	157	B	B/C	B <sup>(M)</sup> /C/D	C/D/E	D/E/V	E/V	V <sup>(M)</sup>		
220	227	B/D	B <sup>(M)</sup> /C/D	C/D/E	C/D/E	E/V				
330	337	D	C/D/E	C/D/E	D/E/V	E <sup>(M)</sup>				
470	477	C/D	C/D/E	D/E/V	E/V					
680	687	C/D/E	D/E	E/V						
1000	108	D <sup>(M)</sup> /E	D/E/V	E <sup>(M)</sup> /V <sup>(M)</sup>						
1500	158	D/E/V <sup>(M)</sup>	E/V <sup>(M)</sup>							
2200	228	V <sup>(M)</sup>								

Not recommended for new designs, higher voltage or smaller case size substitution are offered.

Released codes <sup>(M tolerance only)</sup>

Engineering samples - please contact manufacturer

\*Codes under development - subject to change

Note: Voltage ratings are minimum values. AVX reserves the right to supply higher ratings in the same case size, to the same reliability standards.

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### RATINGS & PART NUMBER REFERENCE

AVX Part No.	Case Size	Cap (µF)	Rated Voltage (V)	DCL (µA) Max.	DF % Max.	ESR Max. (Ω) @100kHz	MSL
<b>2.5 Volt @ 85°C (1.7 Volt @ 125°C)</b>							
TAJA336*002#NJ	A	33	2.5	0.8	8	1.7	1
TAJA476*002#NJ	A	47	2.5	0.9	6	3	1
TAJA686*002#NJ	A	68	2.5	1.4	8	1.5	1
TAJA107*002#NJ	A	100	2.5	2.5	30	1.4	1
TAJB107*002#NJ	B	100	2.5	2.5	8	1.4	1
TAJB157*002#NJ	B	150	2.5	3	10	1.6	1
TAJB227*002#NJ	B	220	2.5	4.4	16	1.6	1
TAJD227*002#NJ	D	220	2.5	5.5	8	0.3	1
TAJD337*002#NJ	D	330	2.5	8.2	8	0.3	1
TAJC477*002#NJ	C	470	2.5	9.4	12	0.2	1
TAJD477*002#NJ	D	470	2.5	11.6	8	0.2	1
TAJC687*002#NJ	C	680	2.5	17.0	18	0.2	1
TAJD687*002#NJ	D	680	2.5	17	16	0.2	1
TAJE687*002#NJ	E	680	2.5	17	10	0.2	1 <sup>1)</sup>
TAJD108M002#NJ	D	1000	2.5	25	20	0.2	1
TAJE108*002#NJ	E	1000	2.5	20	14	0.4	1 <sup>1)</sup>
TAJD158*002#NJ	D	1500	2.5	37.5	60	0.2	1
TAJE158*002#NJ	E	1500	2.5	37	20	0.2	1 <sup>1)</sup>
TAJV158M002#NJ	V	1500	2.5	30	20	0.2	1 <sup>1)</sup>
TAJV228M002#NJ	V	2200	2.5	55	50	0.2	1 <sup>1)</sup>
<b>4 Volt @ 85°C (2.7 Volt @ 125°C)</b>							
TAJA336*004#NJ	A	33	4	1.3	6	3	1
TAJA476*004#NJ	A	47	4	1.9	8	2.6	1
TAJA686*004#NJ	A	68	4	2.7	10	1.5	1
TAJB686*004#NJ	B	68	4	2.7	6	1.8	1
TAJA107*004#NJ	A	100	4	4	30	1.4	1
TAJB107*004#NJ	B	100	4	4	8	0.9	1
TAJB157*004#NJ	B	150	4	6	10	1.5	1
TAJC157*004#NJ	C	150	4	6	6	0.3	1
TAJB227M004#NJ	B	220	4	8.8	12	1.1	1
TAJC227*004#NJ	C	220	4	8.8	8	1.2	1
TAJD227*004#NJ	D	220	4	8.8	8	0.9	1
TAJC337*004#NJ	C	330	4	13.2	8	0.3	1
TAJD337*004#NJ	D	330	4	13.2	8	0.9	1
TAJC477*004#NJ	C	470	4	18.8	14	0.3	1
TAJD477*004#NJ	D	470	4	18.8	12	0.9	1
TAJE477*004#NJ	E	470	4	18.8	10	0.5	1 <sup>1)</sup>
TAJD687*004#NJ	D	680	4	27.2	14	0.5	1
TAJE687*004#NJ	E	680	4	27.2	14	0.9	1 <sup>1)</sup>
TAJD108*004#NJ	D	1000	4	40	60	0.2	1
TAJE108*004#NJ	E	1000	4	40	14	0.4	1 <sup>1)</sup>
TAJV108*004#NJ	V	1000	4	40	16	0.2	1 <sup>1)</sup>
TAJE158*004#NJ	E	1500	4	60	30	0.2	1 <sup>1)</sup>
TAJV158M004#NJ	V	1500	4	60	30	0.2	1 <sup>1)</sup>
<b>6.3 Volt @ 85°C (4 Volt @ 125°C)</b>							
TAJA106*006#NJ	A	10	6.3	0.6	6	4	1
TAJA156*006#NJ	A	15	6.3	0.9	6	3.5	1
TAJA226*006#NJ	A	22	6.3	1.4	6	3	1
TAJA336*006#NJ	A	33	6.3	2.1	8	2.2	1
TAJA476*006#NJ	A	47	6.3	2.8	10	1.6	1
TAJB476*006#NJ	B	47	6.3	3	6	2	1
TAJC476*006#NJ	C	47	6.3	3	6	1.6	1
TAJB686*006#NJ	B	68	6.3	4	8	0.9	1
TAJC686*006#NJ	C	68	6.3	4.3	6	1.5	1
TAJB107*006#NJ	B	100	6.3	6.3	10	1.7	1
TAJC107*006#NJ	C	100	6.3	6.3	6	0.9	1
TAJB157M006#NJ	B	150	6.3	9.5	10	1.2	1
TAJC157*006#NJ	C	150	6.3	9.5	6	1.3	1

AVX Part No.	Case Size	Cap (µF)	Rated Voltage (V)	DCL (µA) Max.	DF % Max.	ESR Max. (Ω) @100kHz	MSL
TAJD157*006#NJ	D	150	6.3	9.5	6	0.9	1
TAJC227*006#NJ	C	220	6.3	13.9	8	1.2	1
TAJD227*006#NJ	D	220	6.3	13.9	8	0.4	1
TAJE227*006#NJ	E	220	6.3	13.9	8	0.4	1 <sup>1)</sup>
TAJC337*006#NJ	C	330	6.3	19.8	12	0.5	1
TAJD337*006#NJ	D	330	6.3	20.8	8	0.4	1
TAJE337*006#NJ	E	330	6.3	20.8	8	0.4	1 <sup>1)</sup>
TAJD477*006#NJ	D	470	6.3	28	12	0.4	1
TAJE477*006#NJ	E	470	6.3	28	10	0.4	1 <sup>1)</sup>
TAJV477*006#NJ	V	470	6.3	28	10	0.4	1 <sup>1)</sup>
TAJE687*006#NJ	E	680	6.3	42.8	10	0.5	1 <sup>1)</sup>
TAJV687*006#NJ	V	680	6.3	42.8	10	0.5	1 <sup>1)</sup>
TAJE108M006#NJ	E	1000	6.3	60	20	0.2	1 <sup>1)</sup>
TAJV108M006#NJ	V	1000	6.3	60	16	0.2	1 <sup>1)</sup>
<b>10 Volt @ 85°C (7 Volt @ 125°C)</b>							
TAJA475*010#NJ	A	4.7	10	0.5	6	5	1
TAJA685*010#NJ	A	6.8	10	0.7	6	4	1
TAJA106*010#NJ	A	10	10	1	6	3	1
TAJA156*010#NJ	A	15	10	1.5	6	3.2	1
TAJB156*010#NJ	B	15	10	1.5	6	2.8	1
TAJA226*010#NJ	A	22	10	2.2	8	3	1
TAJB226*010#NJ	B	22	10	2.2	6	2.4	1
TAJA336*010#NJ	A	33	10	3.3	8	1.7	1
TAJB336*010#NJ	B	33	10	3.3	6	1.8	1
TAJC336*010#NJ	C	33	10	3.3	6	1.6	1
TAJB476*010#NJ	B	47	10	4.7	8	1	1
TAJC476*010#NJ	C	47	10	4.7	6	1.2	1
TAJB686*010#NJ	B	68	10	6.8	6	1.4	1
TAJC686*010#NJ	C	68	10	6.8	6	1.3	1
TAJB107M010#NJ	B	100	10	10	8	1.4	1
TAJC107*010#NJ	C	100	10	10	8	1.2	1
TAJD107*010#NJ	D	100	10	10	6	0.9	1
TAJC157*010#NJ	C	150	10	15	8	0.9	1
TAJD157*010#NJ	D	150	10	15	8	0.9	1
TAJE157*010#NJ	E	150	10	15	8	0.9	1 <sup>1)</sup>
TAJC227*010#NJ	C	220	10	22	18	0.5	1
TAJD227*010#NJ	D	220	10	22	8	0.5	1
TAJE227*010#NJ	E	220	10	22	8	0.5	1 <sup>1)</sup>
TAJD337*010#NJ	D	330	10	33	8	0.9	1
TAJE337*010#NJ	E	330	10	33	8	0.9	1 <sup>1)</sup>
TAJV337*010#NJ	V	330	10	33	10	0.9	1 <sup>1)</sup>
TAJE477*010#NJ	E	470	10	47	10	0.5	1 <sup>1)</sup>
TAJV477*010#NJ	V	470	10	47	10	0.5	1 <sup>1)</sup>
<b>16 Volt @ 85°C (10 Volt @ 125°C)</b>							
TAJA225*016#NJ	A	2.2	16	0.5	6	6.5	1
TAJA335*016#NJ	A	3.3	16	0.5	6	5	1
TAJB335*016#NJ	B	3.3	16	0.5	6	4.5	1
TAJA475*016#NJ	A	4.7	16	0.8	6	4	1
TAJA745*016#NJ	B	4.7	16	0.8	6	3.5	1
TAJA685*016#NJ	A	6.8	16	1.1	6	3.5	1
TAJB685*016#NJ	B	6.8	16	1.1	6	2.5	1
TAJA106*016#NJ	A	10	16	1.6	6	3	1
TAJB106*016#NJ	B	10	16	1.6	6	2.8	1
TAJC106*016#NJ	C	10	16	1.6	6	2	1
TAJA156M016#NJ	A	15	16	2.4	6	2	1
TAJB156*016#NJ	B	15	16	2.4	6	2.5	1
TAJC156*016#NJ	C	15	16	2.4	6	1.8	1
TAJB226*016#NJ	B	22	16	3.5	6	2.3	1
TAJC226*016#NJ	C	22	16	3.5	6	1	1

<sup>1)</sup> Dry pack option (see How to order) recommended for reduction of stress during soldering. Dry pack parts should be treated as MSL 3.

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

For AEC-Q200 availability, please contact AVX.

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 126.

**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.**



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### RATINGS & PART NUMBER REFERENCE

AVX Part No.	Case Size	Cap (µF)	Rated Voltage (V)	DCL (µA) Max.	DF % Max.	ESR Max. (Ω) @100kHz	MSL
TAJD226*016#NJ	D	22	16	3.5	6	1.1	1
TAJB336*016#NJ	B	33	16	5.3	8	2.1	1
TAJC336*016#NJ	C	33	16	5.3	6	1.5	1
TAJD336*016#NJ	D	33	16	5.3	6	0.9	1
TAJC476*016#NJ	C	47	16	7.5	6	0.5	1
TAJD476*016#NJ	D	47	16	7.5	6	0.9	1
TAJC686*016#NJ	C	68	16	10.9	6	1.3	1
TAJD686*016#NJ	D	68	16	10.9	6	0.9	1
TAJC107*016#NJ	C	100	16	16	8	1	1
TAJD107*016#NJ	D	100	16	16	6	0.6	1
TAJE107*016#NJ	E	100	16	16	6	0.9	1 <sup>1)</sup>
TAJD157*016#NJ	D	150	16	24	6	0.9	1
TAJE157*016#NJ	E	150	16	23	8	0.3	1 <sup>1)</sup>
TAJV157*016#NJ	V	150	16	24	8	0.5	1 <sup>1)</sup>
TAJE227*016#NJ	E	220	16	35.2	10	0.5	1 <sup>1)</sup>
TAJV227*016#NJ	V	220	16	35.2	8	0.9	1 <sup>1)</sup>
TAJE337M016#NJ	E	330	16	52.8	30	0.4	1 <sup>1)</sup>
<b>20 Volt @ 85°C (13 Volt @ 125°C)</b>							
TAJA105*020#NJ	A	1	20	0.5	4	9	1
TAJA155*020#NJ	A	1.5	20	0.5	6	6.5	1
TAJA225*020#NJ	A	2.2	20	0.5	6	5.3	1
TAJB225*020#NJ	B	2.2	20	0.5	6	3.5	1
TAJA335*020#NJ	A	3.3	20	0.7	6	4.5	1
TAJB335*020#NJ	B	3.3	20	0.7	6	3	1
TAJA475*020#NJ	A	4.7	20	0.9	6	4	1
TAJB475*020#NJ	B	4.7	20	0.9	6	3	1
TAJA685*020#NJ	A	6.8	20	1.4	6	2.4	1
TAJB685*020#NJ	B	6.8	20	1.4	6	2.5	1
TAJC685*020#NJ	C	6.8	20	1.4	6	2	1
TAJB106*020#NJ	B	10	20	2	6	2.1	1
TAJC106*020#NJ	C	10	20	2	6	1.2	1
TAJB156*020#NJ	B	15	20	3	6	2	1
TAJC156*020#NJ	C	15	20	3	6	1.7	1
TAJB226*020#NJ	B	22	20	4.4	6	1.8	1
TAJC226*020#NJ	C	22	20	4.4	6	1.6	1
TAJD226*020#NJ	D	22	20	4.4	6	0.9	1
TAJC336*020#NJ	C	33	20	6.6	6	1.5	1
TAJD336*020#NJ	D	33	20	6.6	6	0.9	1
TAJC476*020#NJ	C	47	20	9.4	6	0.5	1
TAJD476*020#NJ	D	47	20	9.4	6	0.9	1
TAJE476*020#NJ	E	47	20	9.4	6	0.9	1 <sup>1)</sup>
TAJC686M020#NJ	C	68	20	13.6	8	0.5	1
TAJD686*020#NJ	D	68	20	13.6	6	0.4	1
TAJE686*020#NJ	E	68	20	13.6	6	0.9	1 <sup>1)</sup>
TAJD107*020#NJ	D	100	20	20	6	0.5	1
TAJE107*020#NJ	E	100	20	20	6	0.4	1 <sup>1)</sup>
TAJV107*020#NJ	V	100	20	20	8	0.9	1 <sup>1)</sup>
TAJE157*020#NJ	E	150	20	30	8	0.3	1 <sup>1)</sup>
TAJV157*020#NJ	V	150	20	30	8	0.3	1 <sup>1)</sup>
<b>25 Volt @ 85°C (17 Volt @ 125°C)</b>							
TAJA474*025#NJ	A	0.47	25	0.5	4	14	1
TAJA684*025#NJ	A	0.68	25	0.5	4	10	1
TAJA105*025#NJ	A	1	25	0.5	4	8	1
TAJA155*025#NJ	A	1.5	25	0.5	6	7.5	1
TAJB155*025#NJ	B	1.5	25	0.5	6	5	1
TAJA225*025#NJ	A	2.2	25	0.6	6	7	1
TAJB225*025#NJ	B	2.2	25	0.6	6	4.5	1
TAJA335*025#NJ	A	3.3	25	0.8	6	3.7	1

AVX Part No.	Case Size	Cap (µF)	Rated Voltage (V)	DCL (µA) Max.	DF % Max.	ESR Max. (Ω) @100kHz	MSL
TAJB335*025#NJ	B	3.3	25	0.8	6	3.5	1
TAJA475*025#NJ	A	4.7	25	1.2	6	3.1	1
TAJB475*025#NJ	B	4.7	25	1.2	6	1.5	1
TAJB685*025#NJ	B	6.8	25	1.7	6	2.8	1
TAJC685*025#NJ	C	6.8	25	1.7	6	2	1
TAJB106*025#NJ	B	10	25	2.5	6	2.5	1
TAJC106*025#NJ	C	10	25	2.5	6	1.8	1
TAJD106*025#NJ	D	10	25	2.5	6	1.2	1
TAJC156*025#NJ	C	15	25	3.8	6	1.6	1
TAJD156*025#NJ	D	15	25	3.8	6	1	1
TAJC226*025#NJ	C	22	25	5.5	6	1.4	1
TAJD226*025#NJ	D	22	25	5.5	6	0.9	1
TAJD336*025#NJ	D	33	25	8.3	6	0.9	1
TAJE336*025#NJ	E	33	25	8.3	6	0.9	1 <sup>1)</sup>
TAJD476*025#NJ	D	47	25	11.8	6	0.9	1
TAJE476*025#NJ	E	47	25	11.8	6	0.9	1 <sup>1)</sup>
TAJE686*025#NJ	E	68	25	17	6	0.9	1 <sup>1)</sup>
TAJV686*025#NJ	V	68	25	17	6	0.9	1 <sup>1)</sup>
TAJE107M025#NJ	E	100	25	25	10	0.3	1 <sup>1)</sup>
TAJV107*025#NJ	V	100	25	25	8	0.4	1 <sup>1)</sup>
TAJV157M025#NJ	V	150	25	37.5	10	0.4	1 <sup>1)</sup>
<b>35 Volt @ 85°C (23 Volt @ 125°C)</b>							
TAJA104*035#NJ	A	0.1	35	0.5	4	24	1
TAJA154*035#NJ	A	0.15	35	0.5	4	21	1
TAJA224*035#NJ	A	0.22	35	0.5	4	18	1
TAJA334*035#NJ	A	0.33	35	0.5	4	15	1
TAJA474*035#NJ	A	0.47	35	0.5	4	12	1
TAJB474*035#NJ	B	0.47	35	0.5	4	10	1
TAJA684*035#NJ	A	0.68	35	0.5	4	8	1
TAJB684*035#NJ	B	0.68	35	0.5	4	8	1
TAJA105*035#NJ	A	1	35	0.5	4	7.5	1
TAJB105*035#NJ	B	1	35	0.5	4	6.5	1
TAJA155*035#NJ	A	1.5	35	0.5	6	7.5	1
TAJB155*035#NJ	B	1.5	35	0.5	6	5.2	1
TAJC155*035#NJ	C	1.5	35	0.5	6	4.5	1
TAJA225*035#NJ	A	2.2	35	0.8	6	4.5	1
TAJB225*035#NJ	B	2.2	35	0.8	6	4.2	1
TAJC225*035#NJ	C	2.2	35	0.8	6	3.5	1
TAJB335*035#NJ	B	3.3	35	1.2	6	3.5	1
TAJC335*035#NJ	C	3.3	35	1.2	6	2.5	1
TAJB475*035#NJ	B	4.7	35	1.6	6	3.1	1
TAJC475*035#NJ	C	4.7	35	1.6	6	2.2	1
TAJD475*035#NJ	D	4.7	35	1.6	6	1.5	1
TAJC685*035#NJ	C	6.8	35	2.4	6	1.8	1
TAJD685*035#NJ	D	6.8	35	2.4	6	1.3	1
TAJC106*035#NJ	C	10	35	3.5	6	1.6	1
TAJD106*035#NJ	D	10	35	3.5	6	1	1
TAJE106*035#NJ	E	10	35	3.5	6	0.9	1 <sup>1)</sup>
TAJC156*035#NJ	C	15	35	5.3	6	1.4	1
TAJD156*035#NJ	D	15	35	5.3	6	0.9	1
TAJD226*035#NJ	D	22	35	7.7	6	0.9	1
TAJE226*035#NJ	E	22	35	7.7	6	0.5	1 <sup>1)</sup>
TAJD336*035#NJ	D	33	35	11.6	6	0.9	1
TAJE336*035#NJ	E	33	35	11.6	6	0.9	1 <sup>1)</sup>
TAJV336*035#NJ	V	33	35	11.6	6	0.5	1 <sup>1)</sup>
TAJE476*035#NJ	E	47	35	16.5	6	0.9	1 <sup>1)</sup>
TAJV476*035#NJ	V	47	35	16.5	6	0.4	1 <sup>1)</sup>
TAJV686*035#NJ	V	68	35	23.8	6	0.5	1 <sup>1)</sup>

<sup>1)</sup> Dry pack option (see How to order) recommended for reduction of stress during soldering. Dry pack parts should be treated as MSL 3.

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

For AEC-Q200 availability, please contact AVX.

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 126.

**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.**



# TAJ Series



## Standard Tantalum

### RATINGS & PART NUMBER REFERENCE

AVX Part No.	Case Size	Cap (µF)	Rated Voltage (V)	DCL (µA) Max.	DF % Max.	ESR Max. (Ω) @100kHz	MSL
<b>50 Volt @ 85°C (33 Volt @ 125°C)</b>							
TAJA104*050#NJ	A	0.1	50	0.5	4	22	1
TAJA154*050#NJ	A	0.15	50	0.5	4	15	1
TAJB154*050#NJ	B	0.15	50	0.5	4	17	1
TAJA224*050#NJ	A	0.22	50	0.5	4	18	1
TAJB224*050#NJ	B	0.22	50	0.5	4	14	1
TAJA334*050#NJ	A	0.33	50	0.5	4	17	1
TAJB334*050#NJ	B	0.33	50	0.5	4	12	1
TAJA474*050#NJ	A	0.47	50	0.5	4	9.5	1
TAJB474*050#NJ	B	0.47	50	0.7	4	9.5	1
TAJC474*050#NJ	C	0.47	50	0.5	4	8	1
TAJA684*050#NJ	A	0.68	50	0.5	4	7.9	1
TAJB684*050#NJ	B	0.68	50	0.5	4	8	1
TAJC684*050#NJ	C	0.68	50	0.5	4	7	1
TAJA105M050#NJ	A	1	50	0.5	4	6.6	1
TAJB105*050#NJ	B	1	50	0.5	6	7	1
TAJC105*050#NJ	C	1	50	0.5	4	5.5	1
TAJB155*050#NJ	B	1.5	50	0.8	8	5.4	1
TAJC155*050#NJ	C	1.5	50	0.8	6	4.5	1
TAJD155*050#NJ	D	1.5	50	0.8	6	4	1
TAJB225*050#NJ	B	2.2	50	1.1	8	4.5	1
TAJC225*050#NJ	C	2.2	50	1.1	8	2.5	1
TAJD225*050#NJ	D	2.2	50	1.1	6	2.5	1
TAJC335*050#NJ	C	3.3	50	1.6	6	2.5	1
TAJD335*050#NJ	D	3.3	50	1.7	6	2	1
TAJC475*050#NJ	C	4.7	50	0.5	4	1.4	1
TAJD475*050#NJ	D	4.7	50	2.4	6	1.4	1
TAJC685*050#NJ	C	6.8	50	3.4	6	1	1
TAJD685*050#NJ	D	6.8	50	3.4	6	1	1
TAJD106*050#NJ	D	10	50	5	6	0.8	1
TAJE106*050#NJ	E	10	50	5	6	1	1 <sup>1)</sup>
TAJV106*050#NJ	V	10	50	5	6	0.65	1 <sup>1)</sup>
TAJD156*050#NJ	D	15	50	7.5	6	0.6	1
TAJE156*050#NJ	E	15	50	7.5	6	0.6	1 <sup>1)</sup>
TAJV156*050#NJ	V	15	50	7.5	6	0.6	1 <sup>1)</sup>
TAJV226*050#NJ	V	22	50	11	8	0.6	1 <sup>1)</sup>

<sup>1)</sup> Dry pack option (see How to order) recommended for reduction of stress during soldering. Dry pack parts should be treated as MSL 3.

For AEC-Q200 availability, please contact AVX.

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 126.

**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.**

# TAJ Automotive Range



## Standard Tantalum - Automotive Product Range

### TAJ AUTOMOTIVE RANGE CAPACITANCE AND RATED VOLTAGE, $V_R$ (VOLTAGE CODE) RANGE (LETTER DENOTES CASE SIZE)

Capacitance		Rated voltage DC ( $V_R$ ) to 85°C						
$\mu\text{F}$	Code	6.3V (J)	10V (A)	16V (C)	20V (D)	25V (E)	35V (V)	50V (T)
0.10	104							
0.15	154							A
0.22	224							
0.33	334						A	A
0.47	474					A	A	A/B
0.68	684					A	A	B
1.0	105			A	A	A	A/B	B/C
1.5	155				A	A	A/B	C
2.2	225		A	A	A/B	A/B	B/C	C/D
3.3	335	A		A/B	A/B	B	B/C	C/D
4.7	475		A/B	A/B	A/B	B/C	B/C/D	C/D
6.8	685		A/B	A/B	B/C	B/C	C/D	D
10	106	A/B	A/B	A/B/C	B/C	C/D	C/D	D/E
15	156	A	A/B/C	B/C	B/C	C/D	D	
22	226	A/B/C	A/B/C	B/C/D	C/D	C/D	D/E	
33	336	A/B	B/C	C/D	C/D	D	E	
47	476	B/C	B/C/D	C/D	D	D/E		
68	686	B/C	C/D	C/D	D/E			
100	107	C/D	C/D	D/E	E			
150	157	C/D	D/E	E				
220	227	D	D/E					
330	337	D/E	E					
470	477	D/E						
680	687	E						

Not recommended for new designs, higher voltage or smaller case size substitution are offered.

Released codes

Note: Voltage ratings are minimum values. AVX reserves the right to supply higher ratings in the same case size, to the same reliability standards.

## HOW TO ORDER

<b>TAJ</b>	<b>C</b>	<b>106</b>	<b>M</b>	<b>035</b>	<b>T</b>	<b>NJ</b>
<b>Type</b>	<b>Case Size</b> See table above	<b>Capacitance Code</b> pF code: 1st two digits represent significant figures, 3rd digit represents multiplier (number of zeros to follow)	<b>Tolerance</b> K = $\pm 10\%$ M = $\pm 20\%$	<b>Rated DC Voltage</b> 006 = 6.3Vdc 010 = 10Vdc 016 = 16Vdc 020 = 20Vdc 025 = 25Vdc 035 = 35Vdc 050 = 50Vdc	<b>Packaging</b> T = Automotive Lead Free 7" Reel U = Automotive Lead Free 13" Reel	<b>Specification Suffix</b> NJ = Std Suffix

## TECHNICAL SPECIFICATIONS

Technical Data:

All technical data relate to an ambient temperature of +25°C

Capacitance Range:	0.22 $\mu\text{F}$ to 680 $\mu\text{F}$							
Capacitance Tolerance:	$\pm 10\%$ ; $\pm 20\%$							
Rated Voltage ( $V_R$ )	$\leq +85^\circ\text{C}$ :	6.3	10	16	20	25	35	50
Category Voltage ( $V_C$ )	$\leq +125^\circ\text{C}$ :	4	7	10	13	17	23	33
Surge Voltage ( $V_S$ )	$\leq +85^\circ\text{C}$ :	8	13	20	26	32	46	65
Surge Voltage ( $V_S$ )	$\leq +125^\circ\text{C}$ :	5	8	13	16	20	28	40
Temperature Range:	-55°C to +125°C							
Environmental Classification:	55/125/56 (IEC 68-2)							
Reliability:	1% per 1000 hours at 85°C, $V_R$ with 0.1 $\Omega/V$ series impedance, 60% confidence level							
Termination Finished:	Sn Plating (standard), Gold and SnPb Plating upon request							
	Meets requirements of AEC-Q200							



# TAJ Automotive Range



## Standard Tantalum - Automotive Product Range

### RATINGS & PART NUMBER REFERENCE

AVX Part No.*	Case Size	Cap (µF)	Rated Voltage (V)	DCL (µA) Max.	DF % Max.	ESR Max. (Ω) @100kHz	MSL
<b>6.3 Volt @ 85°C (4 Volt @ 125°C)</b>							
TAJA335*006TNJ	A	3.3	6.3	0.5	6	7	1
TAJA106*006TNJ	A	10	6.3	0.6	6	4	1
TAJB106*006TNJ	B	10	6.3	0.6	6	3	1
TAJA156*006TNJ	A	15	6.3	0.9	6	3.5	1
TAJA226*006TNJ	A	22	6.3	1.4	6	3	1
TAJB226*006TNJ	B	22	6.3	1.4	6	2.5	1
TAJC226*006TNJ	C	22	6.3	1.4	6	2	1
TAJA336*006TNJ	A	33	6.3	2.1	8	2.2	1
TAJB336*006TNJ	B	33	6.3	2.1	6	2.2	1
TAJB476*006TNJ	B	47	6.3	3	6	2	1
TAJC476*006TNJ	C	47	6.3	3	6	1.6	1
TAJB686*006TNJ	B	68	6.3	4	8	0.9	1
TAJC686*006TNJ	C	68	6.3	4.3	6	1.5	1
TAJC107*006TNJ	C	100	6.3	6.3	6	0.9	1
TAJD107*006TNJ	D	100	6.3	6.3	6	0.9	3
TAJC157*006TNJ	C	150	6.3	9.5	6	1.3	1
TAJD157*006TNJ	D	150	6.3	9.5	6	0.9	3
TAJD227*006TNJ	D	220	6.3	13.9	8	0.4	3
TAJD337*006TNJ	D	330	6.3	20.8	8	0.4	3
TAJE337*006TNJ	E	330	6.3	20.8	8	0.4	3
TAJD477*006TNJ	D	470	6.3	28	12	0.4	3
TAJE477*006TNJ	E	470	6.3	28	10	0.4	3
TAJE687*006TNJ	E	680	6.3	42.8	10	0.5	3
<b>10 Volt @ 85°C (7 Volt @ 125°C)</b>							
TAJA225*010TNJ	A	2.2	10	0.5	6	7	1
TAJA475*010TNJ	A	4.7	10	0.5	6	5	1
TAJB475*010TNJ	B	4.7	10	0.5	6	4	1
TAJA685*010TNJ	A	6.8	10	0.7	6	4	1
TAJB685*010TNJ	B	6.8	10	0.7	6	3	1
TAJA106*010TNJ	A	10	10	1	6	3	1
TAJB106*010TNJ	B	10	10	1	6	2.1	1
TAJA156*010TNJ	A	15	10	1.5	6	3.2	1
TAJB156*010TNJ	B	15	10	1.5	6	2.8	1
TAJC156*010TNJ	C	15	10	1.5	6	2	1
TAJA226*010TNJ	A	22	10	2.2	8	3	1
TAJB226*010TNJ	B	22	10	2.2	6	2.4	1
TAJC226*010TNJ	C	22	10	2.2	6	1.8	1
TAJB336*010TNJ	B	33	10	3.3	6	1.8	1
TAJC336*010TNJ	C	33	10	3.3	6	1.6	1
TAJB476*010TNJ	B	47	10	4.7	8	1	1
TAJC476*010TNJ	C	47	10	4.7	6	1.2	1
TAJD476*010TNJ	D	47	10	4.7	6	0.4	3
TAJC686*010TNJ	C	68	10	6.8	6	1.3	1
TAJD686*010TNJ	D	68	10	6.8	6	0.9	3
TAJC107*010TNJ	C	100	10	10	8	1.2	1
TAJD107*010TNJ	D	100	10	10	6	0.9	3
TAJD157*010TNJ	D	150	10	15	8	0.9	3
TAJE157*010TNJ	E	150	10	15	8	0.9	3
TAJD227*010TNJ	D	220	10	22	8	0.5	3
TAJE227*010TNJ	E	220	10	22	8	0.5	3
TAJE337*010TNJ	E	330	10	33	8	0.9	3
<b>16 Volt @ 85°C (10 Volt @ 125°C)</b>							
TAJA105*016TNJ	A	1	16	0.5	4	11	1
TAJA225*016TNJ	A	2.2	16	0.5	6	6.5	1
TAJA335*016TNJ	A	3.3	16	0.5	6	5	1
TAJB335*016TNJ	B	3.3	16	0.5	6	4.5	1
TAJA475*016TNJ	A	4.7	16	0.8	6	4	1
TAJB475*016TNJ	B	4.7	16	0.8	6	3.5	1

AVX Part No.*	Case Size	Cap (µF)	Rated Voltage (V)	DCL (µA) Max.	DF % Max.	ESR Max. (Ω) @100kHz	MSL
TAJA685*016TNJ	A	6.8	16	1.1	6	3.5	1
TAJB685*016TNJ	B	6.8	16	1.1	6	2.5	1
TAJA106*016TNJ	A	10	16	1.6	6	3	1
TAJB106*016TNJ	B	10	16	1.6	6	2.8	1
TAJC106*016TNJ	C	10	16	1.6	6	2	1
TAJB156*016TNJ	B	15	16	2.4	6	2.5	1
TAJC156*016TNJ	C	15	16	2.4	6	1.8	1
TAJB226*016TNJ	B	22	16	3.5	6	2.3	1
TAJC226*016TNJ	C	22	16	3.5	6	1	1
TAJD226*016TNJ	D	22	16	3.5	6	1.1	3
TAJC336*016TNJ	C	33	16	5.3	6	1.5	1
TAJD336*016TNJ	D	33	16	5.3	6	0.9	3
TAJC476*016TNJ	C	47	16	7.5	6	0.5	1
TAJD476*016TNJ	D	47	16	7.5	6	0.9	3
TAJC686*016TNJ	C	68	16	10.9	6	1.3	1
TAJD686*016TNJ	D	68	16	10.9	6	0.9	3
TAJD107*016TNJ	D	100	16	16	6	0.6	3
TAJE107*016TNJ	E	100	16	16	6	0.9	3
TAJE157*016TNJ	E	150	16	23	8	0.3	3
<b>20 Volt @ 85°C (13 Volt @ 125°C)</b>							
TAJA105*020TNJ	A	1	20	0.5	4	9	1
TAJA155*020TNJ	A	1.5	20	0.5	6	6.5	1
TAJA225*020TNJ	A	2.2	20	0.5	6	5.3	1
TAJB225*020TNJ	B	2.2	20	0.5	6	3.5	1
TAJA335*020TNJ	A	3.3	20	0.7	6	4.5	1
TAJB335*020TNJ	B	3.3	20	0.7	6	3	1
TAJA475*020TNJ	A	4.7	20	0.9	6	4	1
TAJB475*020TNJ	B	4.7	20	0.9	6	3	1
TAJB685*020TNJ	B	6.8	20	1.4	6	2.5	1
TAJC685*020TNJ	C	6.8	20	1.4	6	2	1
TAJB106*020TNJ	B	10	20	2	6	2.1	1
TAJC106*020TNJ	C	10	20	2	6	1.2	1
TAJB156*020TNJ	B	15	20	3	6	2	1
TAJC156*020TNJ	C	15	20	3	6	1.7	1
TAJC226*020TNJ	C	22	20	4.4	6	1.6	1
TAJD226*020TNJ	D	22	20	4.4	6	0.9	3
TAJC336*020TNJ	C	33	20	6.6	6	1.5	1
TAJD336*020TNJ	D	33	20	6.6	6	0.9	3
TAJD476*020TNJ	D	47	20	9.4	6	0.9	3
TAJD686*020TNJ	D	68	20	13.6	6	0.4	3
TAJE686*020TNJ	E	68	20	13.6	6	0.9	3
TAJE107*020TNJ	E	100	20	20	6	0.4	3
<b>25 Volt @ 85°C (17 Volt @ 125°C)</b>							
TAJA474*025TNJ	A	0.47	25	0.5	4	14	1
TAJA684*025TNJ	A	0.68	25	0.5	4	10	1
TAJA105*025TNJ	A	1	25	0.5	4	8	1
TAJA155*025TNJ	A	1.5	25	0.5	6	7.5	1
TAJA225*025TNJ	A	2.2	25	0.6	6	7	1
TAJB225*025TNJ	B	2.2	25	0.6	6	4.5	1
TAJB335*025TNJ	B	3.3	25	0.8	6	3.5	1
TAJB475*025TNJ	B	4.7	25	1.2	6	1.5	1
TAJC475*025TNJ	C	4.7	25	1.2	6	2.4	1
TAJB685*025TNJ	B	6.8	25	1.7	6	2.8	1
TAJC685*025TNJ	C	6.8	25	1.7	6	2	1
TAJC106*025TNJ	C	10	25	2.5	6	1.8	1
TAJD106*025TNJ	D	10	25	2.5	6	1.2	3
TAJC156*025TNJ	C	15	25	3.8	6	1.6	1
TAJD156*025TNJ	D	15	25	3.8	6	1	3
TAJC226*025TNJ	C	22	25	5.5	6	1.4	1

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

\*Please use "U" instead of "T" in the suffix letter for 13" reel packaging

Please use specific PN for automotive version – see "HOW TO ORDER".

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 126.

**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.**

# TAJ Automotive Range



## Standard Tantalum - Automotive Product Range

### RATINGS & PART NUMBER REFERENCE

AVX Part No.*	Case Size	Cap (µF)	Rated Voltage (V)	DCL (µA) Max.	DF % Max.	ESR Max. (Ω) @100kHz	MSL
TAJD226*025TNJ	D	22	25	5.5	6	0.9	3
TAJD336*025TNJ	D	33	25	8.3	6	0.9	3
TAJD476*025TNJ	D	47	25	11.8	6	0.9	3
TAJE476*025TNJ	E	47	25	11.8	6	0.9	3
<b>35 Volt @ 85°C (23 Volt @ 125°C)</b>							
TAJA334*035TNJ	A	0.33	35	0.5	4	15	1
TAJA474*035TNJ	A	0.47	35	0.5	4	12	1
TAJA684*035TNJ	A	0.68	35	0.5	4	8	1
TAJA105*035TNJ	A	1	35	0.5	4	7.5	1
TAJB105*035TNJ	B	1	35	0.5	4	6.5	1
TAJA155*035TNJ	A	1.5	35	0.5	6	7.5	1
TAJB155*035TNJ	B	1.5	35	0.5	6	5.2	1
TAJB225*035TNJ	B	2.2	35	0.8	6	4.2	1
TAJC225*035TNJ	C	2.2	35	0.8	6	3.5	1
TAJB335*035TNJ	B	3.3	35	1.2	6	3.5	1
TAJC335*035TNJ	C	3.3	35	1.2	6	2.5	1
TAJB475*035TNJ	B	4.7	35	1.6	6	3.1	1
TAJC475*035TNJ	C	4.7	35	1.6	6	2.2	1
TAJD475*035TNJ	D	4.7	35	1.6	6	1.5	3
TAJC685*035TNJ	C	6.8	35	2.4	6	1.8	1
TAJD685*035TNJ	D	6.8	35	2.4	6	1.3	3
TAJC106*035TNJ	C	10	35	3.5	6	1.6	1
TAJD106*035TNJ	D	10	35	3.5	6	1	3
TAJD156*035TNJ	D	15	35	5.3	6	0.9	3
TAJD226*035TNJ	D	22	35	7.7	6	0.9	3
TAJE226*035TNJ	E	22	35	7.7	6	0.5	3
TAJE336*035TNJ	E	33	35	11.6	6	0.9	3
<b>50 Volt @ 85°C (33 Volt @ 125°C)</b>							
TAJA224*050TNJ	A	0.22	50	0.5	4	18	1
TAJA334*050TNJ	A	0.33	50	0.5	4	17	1
TAJA474*050TNJ	A	0.47	50	0.5	4	9.5	1
TAJB474*050TNJ	B	0.47	50	0.7	4	9.5	1
TAJB684*050TNJ	B	0.68	50	0.5	4	8	1
TAJB105*050TNJ	B	1	50	0.5	6	7	1
TAJC105*050TNJ	C	1	50	0.5	4	5.5	1
TAJC155*050TNJ	C	1.5	50	0.8	6	4.5	1
TAJC225*050TNJ	C	2.2	50	1.1	8	2.5	1
TAJD225*050TNJ	D	2.2	50	1.1	6	2.5	3
TAJC335*050TNJ	C	3.3	50	1.6	6	2.5	1
TAJD335*050TNJ	D	3.3	50	1.7	6	2	3
TAJC475*050TNJ	C	4.7	50	0.5	4	1.4	1
TAJD475*050TNJ	D	4.7	50	2.4	6	1.4	3
TAJD685*050TNJ	D	6.8	50	3.4	6	1	3
TAJD106*050TNJ	D	10	50	5	6	0.8	3
TAJE106*050TNJ	E	10	50	5	6	1	3

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

\*Please use "U" instead of "T" in the suffix letter for 13" reel packaging

Please use specific PN for automotive version – see "HOW TO ORDER".

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 126.

**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.

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<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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