Introduction

Foreword



AVX offers a broad line of solid Tantalum capacitors in a wide range of sizes, styles, and ratings to meet any design needs. This catalog combines into one source AVX's leaded tantalum capacitor information from its worldwide tantalum operations.

The TAP/TEP is rated for use from -55°C to +85°C at rated voltage and up to +125°C with voltage derating. There are three preferred wire forms to choose from which are available on tape and reel, and in bulk for hand insertion.

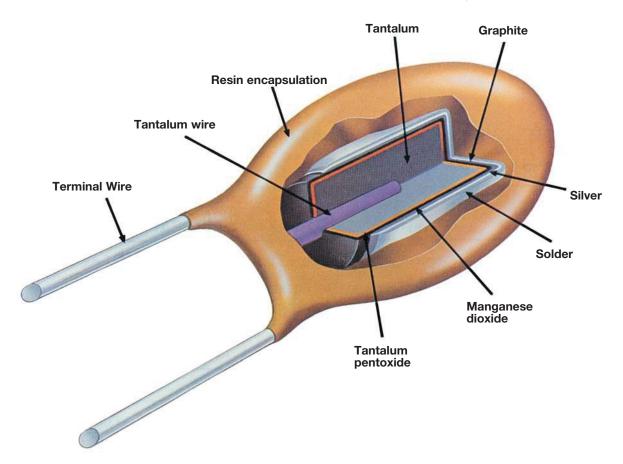
AVX has a complete tantalum applications service available for use by all our customers. With the capability to prototype and mass produce solid tantalum capacitors in special configurations, almost any design need can be fulfilled. And if the customer requirements are outside our standard testing, AVX will work with you to define and implement a test or screening plan.

AVX is determined to become the world leader in tantalum capacitor technology and has made, and is continuing to make, significant investments in equipment and research to reach that end. We believe that the investment has paid off with the devices shown on the following pages.

Dipped Radial Capacitors

SOLID TANTALUM RESIN DIPPED SERIES TAP/TEP

The TAP/TEP resin dipped series of miniature tantalum capacitors is available for individual needs in both commercial and professional applications. From computers to automotive to industrial, AVX has a dipped radial for almost any application.

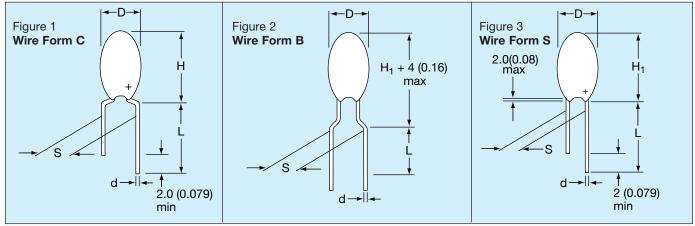




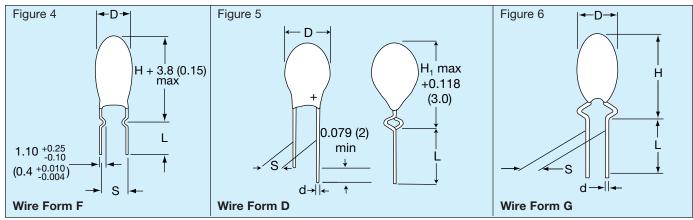


SOLID TANTALUM RESIN DIPPED TAP/TEP

Preferred Wire Forms



Non-Preferred Wire Forms (Not recommended for new designs)

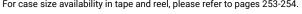


DIMENSIONS

millimeters (inches)

Wire Form	Figure	Case Size	L (see note 1)	S	d	Packaging Suffixes Available*							
Preferred W	Preferred Wire Forms												
С	Figure 1	A - R*	16.0±4.00 (0.630±0.160)	5.00±1.00 (0.200±0.040)	0.50±0.05 (0.020±0.002)	CCS Bulk CRW Tape/Reel CRS Tape/Ammo							
В	Figure 2	A - J*	16.0±4.00 (0.630±0.160)	5.00±1.00 (0.200±0.040)	0.50±0.05 (0.020±0.002)	BRW Tape/Reel BRS Tape/Ammo							
S	Figure 3	A - J*	16.0±4.00 (0.630±0.160)	2.50±0.50 (0.100±0.020)	0.50±0.05 (0.020±0.002)	SCS Bulk SRW Tape/Reel SRS Tape/Ammo							
Non-Preferred Wire Forms (Not recommended for new designs)													
F	Figure 4	A - R	3.90±0.75 (0.155±0.030)	5.00±0.50 (0.200±0.020)	0.50±0.05 (0.020±0.002)	FCS Bulk							
D	Figure 5	A - H*	16.0±4.00 (0.630±0.160)	2.50±0.75 (0.100±0.020)	0.50±0.05 (0.020±0.002)	DCS Bulk DTW Tape/Reel DTS Tape/Ammo							
G	Figure 6	A - J	16.0±4.00 (0.630±0.160)	3.18±0.50 (0.125±0.020)	0.50±0.05 (0.020±0.002)	GSB Bulk							
Н	Similar to Figure 1	A - R	16.0±4.00 (0.630±0.160)	6.35±1.00 (0.250±0.040)	0.50±0.05 (0.020±0.002)	HSB Bulk							

 (1) Lead lengths can be supplied to tolerances other than those above and should be specified in the ordering information.
(2) For D, H, and H1 dimensions, refer to individual product on following pages.
* For case size availability in tape and reel, please refer to pages 253-254. Notes:

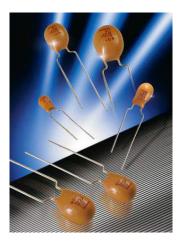




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SOLID TANTALUM RESIN DIPPED CAPACITORS



TAP is a professional grade device manufactured with a flame retardant coating and featuring low leakage current and impedance, very small physical sizes and exceptional temperature stability. It is designed and conditioned to operate to +125°C (see page 282 for voltage derating above 85°C) and is available loose or taped and reeled for auto insertion. The 15 case sizes with wide capacitance and working voltage ranges means the TAP can accommodate almost any application.

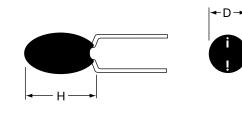
MAXIMUM CASE DIMENSIONS:

millimeters (inches)

Wire	C, F, G, H	B, S, D	
Case	Н	*H ₁	D
A	8.50 (0.330)	7.00 (0.280)	4.50 (0.180)
В	9.00 (0.350)	7.50 (0.300)	4.50 (0.180)
С	10.0 (0.390)	8.50 (0.330)	5.00 (0.200)
D	10.5 (0.410)	9.00 (0.350)	5.00 (0.200)
E	10.5 (0.410)	9.00 (0.350)	5.50 (0.220)
F	11.5 (0.450)	10.0 (0.390)	6.00 (0.240)
G	11.5 (0.450)	10.0 (0.390)	6.50 (0.260)
Н	12.0 (0.470)	10.5 (0.410)	7.00 (0.280)
J	13.0 (0.510)	11.5 (0.450)	8.00 (0.310)
K	14.0 (0.550)	12.5 (0.490)	8.50 (0.330)
L	14.0 (0.550)	12.5 (0.490)	9.00 (0.350)
М	14.5 (0.570)	13.0 (0.510)	9.00 (0.350)
N	16.0 (0.630)		9.00 (0.350)
Р	17.0 (0.670)		10.0 (0.390)
R	18.5 (0.730)		10.0 (0.390)







HOW TO ORDER



475 Μ 035 SCS Suffix indicating wire form **Capacitance Code Capacitance Tolerance Rated DC Voltage** pF code: 1st two digits K = ±10% and packaging M = ±20% represent significant (see page 246) figure's, 3rd digit represents (For $J = \pm 5\%$ tolerance, multiplier (number of zeros please consult factory) to follow)



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Dipped Radial Capacitors TAP Series



TECHNICAL SPECIFICATIONS

Technical Data:	All technical data relate to an ambient temperature of +25°C												
Capacitance Range:	0.10 μF to 330 μF												
Capacitance Tolerance:			$\pm 20\%$; $\pm 10\%$ ($\pm 5\%$ consult your AVX representative for details)										
Rated Voltage DC (V_R)	≤ +85°C:	6.3	10	16	20	25	35	50					
Category Voltage (V _c)	≤ +125°C:	4	6.3	10	13	16	23	33					
Surge Voltage (V _s)	≤ +85°C:	8	13	20	26	33	46	65					
Surge Voltage (V _s)	Surge Voltage $(V_s) \leq +125^{\circ}C$:					21	28	40					
Temperature Range:	-55°C to +125°C												
Environmental Classification:	55/125/56 (IEC 68-2)												
Dissipation Factor:	≤0.04 for C _R 0.1-1.5µF												
	•				≤0.06 for C _R 2.2-6.8µF								
					≤0.08 for C _R 10-68µF								
	≤0.10 for C _R 100-330µF												
Reliability:		1% per 1000 hrs. at 85°C with $0.1\Omega/V$ series impedance, 60% confidence level.											
Qualification:	CECC 30201 - 032												

CAPACITANCE AND RATED VOLTAGE RANGE (LETTER DENOTES CASE SIZE)

Capac	itance	Rated Voltage DC (V _R)								
μF	Code	6.3V	10V	16V	20V	25V	35V	50V		
0.10	104						А	A		
0.15	154						A	A		
0.22	224						A	A		
0.33	334						A	A		
0.47	474						A	A		
0.68	684						A	В		
1.0	105				A	A	A	С		
1.5	155			A	A	A	A	D		
2.2	225		А	A	A	A	В	E		
3.3	335	А	А	A	В	В	С	F		
4.7	475	А	А	В	С	С	E	G		
6.8	685	А	В	С	D	D	F	Н		
10	106	В	С	D	E	E	F	J		
15	156	С	D	E	F	F	Н	K		
22	226	D	E	F	Н	Н	K	L		
33	336	E	F	F	J	J	М			
47	476	F	G	J	K	М	N			
68	686	G	Н	L	N	N				
100	107	Н	К	N	N					
150	157	К	Ν	N						
220	227	М	Р	R						
330	337	Р	R							

Values outside this standard range may be available on request.

AVX reserves the right to supply capacitors to a higher voltage rating, in the same case size, than that ordered.

MARKING

Polarity, capacitance, rated DC voltage, and an "A" (AVX logo) are laser marked on the capacitor body which is made of flame retardant gold epoxy resin with a limiting oxygen index in excess of 30 (ASTM-D-2863).

±20% = Standard (no marking)

±10% = "K" on reverse side of unit

±5% = "J" on reverse side of unit

- Polarity
- Capacitance
- Voltage
- AVX logo
- Tolerance code:

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040920

+ Α 10μ 16



RATINGS AND PART NUMBER REFERENCE

AVX Part No.	Case Size	Capacitance (µF)	DCL (µA) Max.	DF % Max.	ESR Max. (Ω) @ 100 kHz	AVX Part No.	Case Size	Capacitance (µF)	DCL (µA) Max.	DF % Max.	ESR Max. (Ω) @ 100 kHz
	6.3 v	rolt @ 85°C (4 v					25 vc	olt @ 85°C (16 v			
TAP 335(*)006	A	3.3	0.5	6	13.0	TAP 105(*)025	A	1.0	0.5	4	10.0
TAP 475(*)006	A	4.7	0.5	6	10.0	TAP 155(*)025	A	1.5	0.5	4	8.0
TAP 685(*)006	A	6.8	0.5	6	8.0	TAP 225(*)025	A	2.2	0.5	6	6.0
TAP 106(*)006	В	10	0.5	8	6.0	TAP 335(*)025	В	3.3	0.6	6	5.0
TAP 156(*)006	C	15	0.8	8	5.0	TAP 475(*)025	C	4.7	0.9	6	4.0
TAP 226(*)006	D	22	1.1	8	3.7	TAP 685(*)025	D	6.8	1.3	6	3.1
TAP 336(*)006	E	33	1.7	8	3.0	TAP 106(*)025	E	10	2.0	8	2.5
TAP 476(*)006	F	47	2.4	8	2.0	TAP 156(*)025	F	15	3.0	8	2.0
TAP 686(*)006	G	68	3.4	8	1.8	TAP 226(*)025	н	22	4.4	8	1.5
TAP 107(*)006	Н	100	5.0	10	1.6	TAP 336(*)025	J	33	6.6	8	1.2
TAP 157(*)006	К	150	7.6	10	0.9	TAP 476(*)025	M	47	9.4	8	1.0
TAP 227(*)006	М	220	11.0	10	0.9	TAP 686(*)025	N	68	13.6	8	0.8
TAP 337(*)006	Р	330	16.6	10	0.7		_	olt @ 85°C (23)	1
()	10 vo	lt @ 85°C (6.3				TAP 104(*)035	Α	0.1	0.5	4	26.0
TAP 225(*)010	Α	2.2	0.5	6	13.0	TAP 154(*)035	A	0.15	0.5	4	21.0
AP 335(*)010	A	3.3	0.5	6	10.0	TAP 224(*)035	A	0.22	0.5	4	17.0
AP 475(*)010	A	4.7	0.5	6	8.0	TAP 334(*)035	A	0.33	0.5	4	15.0
AP 685(*)010	B	6.8	0.5	6	6.0	TAP 474(*)035	A	0.47	0.5	4	13.0
AP 106(*)010	C	10	0.8	8	5.0	TAP 684(*)035	A	0.68	0.5	4	10.0
TAP 156(*)010	D	15	1.2	8	3.7	TAP 105(*)035	A	1.0	0.5	4	8.0
TAP 226(*)010	E	22	1.7	8	2.7	TAP 155(*)035	A	1.5	0.5	4	6.0
AP 336(*)010	F	33	2.6	8	2.1	TAP 225(*)035	B	2.2	0.6	6	5.0
AP 476(*)010	G	47	3.7	8	1.7	TAP 335(*)035	C	3.3	0.9	6	4.0
AP 686(*)010	H	68	5.4	8	1.3	TAP 475(*)035	E	4.7	1.3	6	3.0
AP 107(*)010	K	100	8.0	10	1.0	TAP 685(*)035	F	6.8	1.9	6	2.5
AP 157(*)010	N	150	12.0	10	0.8	TAP 106(*)035	F	10	2.8	8	2.0
AP 227(*)010	P	220	17.6	10	0.6	TAP 156(*)035	H	15	4.2	8	1.6
AP 337(*)010	R	330	20.0	10	0.5	TAP 226(*)035	K	22	6.1	8	1.3
4 337()010	_	olt @ 85°C (10		-	0.0	TAP 336(*)035	M	33	9.2	8	1.0
AP 155(*)016	A	1.5	0.5	4	10.0	TAP 476(*)035	N	47	10.0	8	0.8
AP 225(*)016	A	2.2	0.5	6	8.0	1/11/1/0()000		olt @ 85°C (33 v			0.0
AP 335(*)016	A	3.3	0.5	6	6.0	TAP 104(*)050	A	0.1	0.5	4	26.0
AP 475(*)016	B	4.7	0.6	6	5.0	TAP 154(*)050	A	0.15	0.5	4	21.0
AP 685(*)016	C	6.8	0.8	6	4.0	TAP 224(*)050	A	0.13	0.5	4	17.0
TAP 106(*)016	D	10	1.2	8	3.2	TAP 334(*)050	A	0.22	0.5	4	17.0
TAP 156(*)016	E	15	1.2	8	2.5	TAP 474(*)050	A	0.33	0.5	4	13.0
TAP 226(*)016	F	22	2.8	8	2.0	TAP 684(*)050	B	0.47	0.5	4	10.0
AP 220()010 AP 336(*)016	F	33	4.2	8	1.6	TAP 105(*)050	C	1.0	0.5	4	8.0
AP 476(*)016	J	47	6.0	8	1.3	TAP 105(*)050	D	1.5	0.5	4	6.0
AP 470()010 AP 686(*)016	L	68	8.7	8	1.0	TAP 135(*)050	E	2.2	0.0	6	3.5
AP 107(*)016	N	100	12.8	10	0.8	TAP 335(*)050	F	3.3	1.3	6	3.0
TAP 107(*)010	N	150	12.0	10	0.6	TAP 335()050	G	4.7	1.8	6	2.5
TAP 137()010 TAP 227(*)016	R	220	20.0	10	0.5	TAP 685(*)050	H	6.8	2.7	6	2.0
		olt @ 85°C (13			0.5	TAP 085(*)050	J	10	4.0	8	1.6
TAP 105(*)020	A	1.0	0.5	4	10.0	TAP 100()050	K	15	6.0	8	1.2
TAP 155(*)020	A	1.5	0.5	4	9.0	TAP 226(*)050		22	8.8	8	1.2
TAP 135()020	A	2.2	0.5	6	7.0						
TAP 335(*)020	B	3.3	0.5	6	5.5	(*) Insert capacitance					
TAP 335()020	C	4.7	0.7	6	4.5	NOTE: Voltage rating				the right t	o supply
TAP 685(*)020	D	6.8	1.0	6	3.6	higher voltage ratings	s in the s	same case size			
TAP 085(*)020 TAP 106(*)020	E	10	1.6	8	2.9						
TAP 106(*)020 TAP 156(*)020	F	10	2.4	8	2.9						
	_	22		8							
TAP 226(*)020	H		3.5		1.8						
TAP 336(*)020	J	33	5.2	8	1.4						
TAP 476(*)020	K	47	7.5	8	1.2						
TAP 686(*)020 TAP 107(*)020	N N	68	10.8	8 10	0.9						
	I NI	100	16.0	-10							



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