

TAZ Series



HRC5000 Medical Grade



The TAZ HRC5000 Medical Grade series is designed for use in medical implantable applications. These are based off of the MIL-PRF-55365 case sizes and feature extremely low DC leakage levels well below typical values.

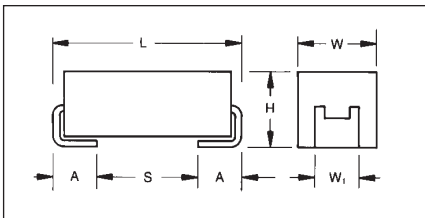
These components are manufactured and tested in the AVX Biddeford Maine factory which is ISO 13485 certified. Weibull grading and surge current testing options per MIL-PRF-55365 are

available along with several plating options including tin/lead solder, 100% tin, or gold terminations.

To request a specific rating or for more information on HRC5000 testing details please contact the factory.

CASE DIMENSIONS:

millimeters (inches)



MARKING

(White marking on black body)



Polarity Stripe (+)

**Capacitance Code
Rated Voltage**

Case Code	Length (L) ±0.38 (0.015)	Width (W) ±0.38 (0.015)	Height (H) ±0.38 (0.015)	Term. Width (W _t)	Term. Length (A) +0.25/-0.13 (+0.010/-0.005)	S min	Typical Weight (g)
A	2.54 (0.100)	1.27 (0.050)	1.27 (0.050)	1.27±0.13 (0.050±0.005)	0.76 (0.030)	0.38 (0.015)	0.016
B	3.81 (0.150)	1.27 (0.050)	1.27 (0.050)	1.27±0.13 (0.050±0.005)	0.76 (0.030)	1.65 (0.065)	0.025
C	5.08 (0.200)	1.27 (0.050)	1.27 (0.050)	1.27±0.13 (0.050±0.005)	0.76 (0.030)	2.92 (0.115)	0.035
D	3.81 (0.150)	2.54 (0.100)	1.27 (0.050)	2.41+0.13/-0.25 (0.095+0.005/-0.010)	0.76 (0.030)	1.65 (0.065)	0.045
E	5.08 (0.200)	2.54 (0.100)	1.27 (0.050)	2.41+0.13/-0.25 (0.095+0.005/-0.010)	0.76 (0.030)	2.92 (0.115)	0.065
F	5.59 (0.220)	3.43 (0.135)	1.78 (0.070)	3.30±0.13 (0.130±0.005)	0.76 (0.030)	3.43 (0.135)	0.125
G	6.73 (0.265)	2.79 (0.110)	2.79 (0.110)	2.67±0.13 (0.105±0.005)	1.27 (0.050)	3.56 (0.140)	0.205
H	7.24 (0.285)	3.81 (0.150)	2.79 (0.110)	3.68+0.13/-0.51 (0.145+0.005/-0.020)	1.27 (0.050)	4.06 (0.160)	0.035

TECHNICAL SPECIFICATIONS

Technical Data:	Unless otherwise specified, all technical data relate to an ambient temperature of 25°C									
Capacitance Range:	0.1 µF to 330 µF									
Capacitance Tolerance:	±5%; ±10%; ±20%									
Rated Voltage: (V _R)	≤85°C:	4	6	10	15	20	25	35	50	
Category Voltage: (V _C)	125°C:	2.7	4	6.7	10	13.3	16.7	23.3	33.3	
Surge Voltage: (V _S)	≤85°C:	5.3	8	13.3	20	26.7	33.3	46.7	66.7	
	125°C:	3.5	5.3	8.7	13.3	17.8	22.2	31.1	44.5	
Temperature Range:	-55°C to +125°C									



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

Capacitance		Rated Voltage								
μF	Code	4V	6V	10V	12V	15V	20V	25V	35V	50V
0.1	104									A
0.15	154									A
0.22	224								A	
0.33	334							A		
0.47	474						A		B	
0.68	684					A				
1	105			A		A	A/B	B	D	E
1.5	155		A	A		B	D			
2.2	225	A	A	A/B		A/B/C	B/D	D/E		F
3.3	335		A/B	A/B		B/D	E	E	F	G
4.7	475	A/B	A	B/D		B/D/E	D/E	F		
6	605									
6.8	685	A	D	B/D/E			D/E	F		
10	106	D	B/D/E	B/D/E		D/E/F	E	G	H	
14	146			E						
15	156		B/D/F	D/E/F		E	F/G	H		
22	226		F	D/E/F	E	F/G	G/H			
33	336	E/F	E	F/G		F/H				
47	476	E	E/F/G	F/G/H		G	H			
68	686	E/G	E/F/G/H	G						
100	107	F	G	H		H				
150	157		G	H						
220	227			H						
300	307		H							
330	337		H							

HOW TO ORDER

TAZ	E	106	*	010	C	□	L	@	5	^	++
Type	Case Size	Capacitance Code	Capacitance Tolerance	Voltage Code	ESR	Packaging	Inspection Level	Reliability Grade	Qualification Level	Termination Finish	Surge Test Option
		pF code: 1st two digits represent significant figures 3rd digit represents multiplier (number of zeros to follow)	J = $\pm 5\%$ K = $\pm 10\%$ M = $\pm 20\%$	004 = 4Vdc 006 = 6Vdc 010 = 10Vdc 015 = 15Vdc 020 = 20Vdc 025 = 25Vdc 035 = 35Vdc 050 = 50Vdc	C = Std ESR L = Low ESR	B = Bulk R = 7* T&R W = Waffle	L = Group A	Weibull: B = 0.1%/1000 hrs. 90% conf. C = 0.01%/1000 hrs. 90% conf.	5 = HRC5000	H = Solder Plated 0 = Solder Fused 9 = Gold Plated 7 = 100% Tin	00 = None 23 = 10 Cycles, +25°C 24 = 10 Cycles, -55°C & +85°C 45 = 10 Cycles, -55°C & +85°C before Weibull

*Contact factory for AVX HRC5000 Medical Grade SCD details.

Not RoHS Compliant



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RATING & PART NUMBER REFERENCE		Parametric Specifications by Rating									Typical Ripple Data by Rating						
		Cap @ 120Hz	DC Rated Voltage	ESR @ 100kHz	DCL max			DF max			Power Dissipation	25°C Ripple Current	85°C Ripple Current	125°C Ripple Current	25°C Ripple Voltage	85°C Ripple Voltage	125°C Ripple Voltage
					+25°C	+85°C	+125°C	+25°C	+(85/125)°C	-55°C							
AVX P/N	Case	µF @ 25°C	V @ +85°C	Ohms @ +25°C	(µA)	(µA)	(µA)	(%)	(%)	(%)	W	A (100kHz)	A (100kHz)	A (100kHz)	V (100kHz)	V (100kHz)	V (100kHz)
TAZA225*004L□□@5^++	A	2.2	4	4	0.100	1.000	1.200	6	8	8	0.050	0.112	0.101	0.045	0.447	0.402	0.179
TAZA475*004L□□@5^++	A	4.7	4	6	0.100	1.000	1.200	6	8	8	0.050	0.091	0.082	0.037	0.548	0.493	0.219
TAZB475*004L□□@5^++	B	4.7	4	3.2	0.100	1.000	1.200	6	8	8	0.070	0.148	0.133	0.059	0.473	0.426	0.189
TAZA685*004L□□@5^++	A	6.8	4	6	0.100	1.000	1.200	6	8	8	0.050	0.091	0.082	0.037	0.548	0.493	0.219
TAZD106*004L□□@5^++	D	10	4	1.3	0.100	1.000	1.200	8	8	10	0.080	0.248	0.223	0.099	0.322	0.290	0.129
TAZE336*004L□□@5^++	E	33	4	0.9	0.330	3.300	3.960	8	10	12	0.090	0.316	0.285	0.126	0.285	0.256	0.114
TAZF336*004L□□@5^++	F	33	4	0.6	0.330	3.300	3.960	8	10	12	0.100	0.408	0.367	0.163	0.245	0.220	0.098
TAZE476*004L□□@5^++	E	47	4	0.9	0.470	4.700	5.640	8	10	12	0.090	0.316	0.285	0.126	0.285	0.256	0.114
TAZE686*004L□□@5^++	E	68	4	0.9	0.680	6.800	8.160	8	10	12	0.090	0.316	0.285	0.126	0.285	0.256	0.114
TAZG686*004L□□@5^++	G	68	4	0.275	0.680	6.800	8.160	10	12	12	0.125	0.674	0.607	0.270	0.185	0.167	0.074
TAZF107*004L□□@5^++	F	100	4	0.55	1.000	10.000	12.000	10	12	12	0.100	0.426	0.384	0.171	0.235	0.211	0.094
TAZA155*006L□□@5^++	A	1.5	6	4	0.100	1.000	1.200	6	8	8	0.050	0.112	0.101	0.045	0.447	0.402	0.179
TAZA225*006C□□@5^++	A	2.2	6	12	0.100	1.000	1.200	6	8	8	0.050	0.065	0.058	0.026	0.775	0.697	0.310
TAZA335*006L□□@5^++	A	3.3	6	6	0.100	1.000	1.200	6	8	8	0.050	0.091	0.082	0.037	0.548	0.493	0.219
TAZB335*006L□□@5^++	B	3.3	6	3.2	0.100	1.000	1.200	6	8	8	0.070	0.148	0.133	0.059	0.473	0.426	0.189
TAZA475*006L□□@5^++	A	4.7	6	6	0.100	1.000	1.200	6	8	8	0.050	0.091	0.082	0.037	0.548	0.493	0.219
TAZD685*006L□□@5^++	D	6.8	6	1.5	0.102	1.020	1.224	6	8	8	0.080	0.231	0.208	0.092	0.346	0.312	0.139
TAZB106*006L□□@5^++	B	10	6	3.2	0.150	1.500	1.800	6	8	8	0.070	0.148	0.133	0.059	0.473	0.426	0.189
TAZD106*006C□□@5^++	D	10	6	6	0.150	1.500	1.800	6	8	8	0.080	0.115	0.104	0.046	0.693	0.624	0.277
TAZE106*006L□□@5^++	E	10	6	1	0.150	1.500	1.800	8	10	12	0.090	0.300	0.270	0.120	0.300	0.270	0.120
TAZB156*006L□□@5^++	B	15	6	3.2	0.225	2.250	2.700	8	10	10	0.070	0.148	0.133	0.059	0.473	0.426	0.189
TAZD156*006L□□@5^++	D	15	6	1.7	0.225	2.250	2.700	8	10	12	0.080	0.217	0.195	0.087	0.369	0.332	0.148
TAZF156*006C□□@5^++	F	15	6	0.3	0.225	2.250	2.700	6	8	8	0.100	0.577	0.520	0.231	0.173	0.156	0.069
TAZF226*006L□□@5^++	F	22	6	0.6	0.330	3.300	3.960	8	10	12	0.100	0.408	0.367	0.163	0.245	0.220	0.098
TAZE336*006L□□@5^++	E	33	6	1	0.495	4.950	5.940	6	8	8	0.090	0.300	0.270	0.120	0.300	0.270	0.120
TAZE476*006C□□@5^++	E	47	6	5	0.705	7.050	8.460	6	8	8	0.090	0.134	0.121	0.054	0.671	0.604	0.268
TAZF476*006L□□@5^++	F	47	6	1	0.705	7.050	8.460	8	10	12	0.100	0.316	0.285	0.126	0.316	0.285	0.126
TAZG476*006L□□@5^++	G	47	6	0.275	0.705	7.050	8.460	10	12	12	0.125	0.674	0.607	0.270	0.185	0.167	0.074
TAZE686*006C□□@5^++	E	68	6	2	1.020	10.200	12.240	10	12	12	0.090	0.212	0.191	0.085	0.424	0.382	0.170
TAZF686*006L□□@5^++	F	68	6	0.4	1.020	10.200	12.240	10	12	12	0.100	0.500	0.450	0.200	0.200	0.180	0.080
TAZG686*006L□□@5^++	G	68	6	0.25	1.020	10.200	12.240	10	12	12	0.125	0.707	0.636	0.283	0.177	0.159	0.071
TAZH686*006L□□@5^++	H	68	6	0.18	1.020	10.200	12.240	10	12	12	0.150	0.913	0.822	0.365	0.164	0.148	0.066
TAZG107*006L□□@5^++	G	100	6	0.275	1.500	15.000	18.000	10	12	12	0.125	0.674	0.607	0.270	0.185	0.167	0.074
TAZG157*006L□□@5^++	G	150	6	0.275	2.250	22.500	27.000	10	12	12	0.125	0.674	0.607	0.270	0.185	0.167	0.074
TAZH307*006C□□@5^++	H	300	6	0.9	4.500	45.000	54.000	15	18	18	0.150	0.408	0.367	0.163	0.367	0.331	0.147
TAZH337*006L□□@5^++	H	330	6	0.18	4.950	49.500	59.400	10	12	12	0.150	0.913	0.822	0.365	0.164	0.148	0.066
TAZR334*010C□□@5^++	R	0.33	10	50	0.100	1.000	1.200	6	8	8	0.030	0.024	0.022	0.010	1.225	1.102	0.490
TAZA105*010L□□@5^++	A	1	10	5	0.100	1.000	1.200	6	8	8	0.050	0.100	0.090	0.040	0.500	0.450	0.200
TAZA155*010C□□@5^++	A	1.5	10	12	0.100	1.000	1.200	6	8	8	0.050	0.065	0.058	0.026	0.775	0.697	0.310
TAZA225*010L□□@5^++	A	2.2	10	6	0.100	1.000	1.200	6	8	8	0.050	0.091	0.082	0.037	0.548	0.493	0.219
TAZR225*010L□□@5^++	B	2.2	10	3.2	0.100	1.000	1.200	6	8	8	0.070	0.148	0.133	0.059	0.473	0.426	0.189
TAZA335*010L□□@5^++	A	3.3	10	6	0.100	1.000	1.200	6	8	8	0.050	0.091	0.082	0.037	0.548	0.493	0.219
TAZB335*010C□□@5^++	B	3.3	10	18	0.100	1.000	1.200	6	8	8	0.070	0.062	0.056	0.025	1.122	1.010	0.449

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.

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.

