

PERFORMANCE SPECIFICATION SHEET

CAPACITOR, FIXED, ELECTROLYTIC (CONDUCTIVE POLYMER TANTALUM), SURFACE MOUNT,
NON-ESTABLISHED RELIABILITY AND ESTABLISHED RELIABILITY,
MOLDED SINGLE ANODE

This specification sheet is approved for use by all Departments
and Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall
consist of this specification sheet and [MIL-PRF-32700](#).

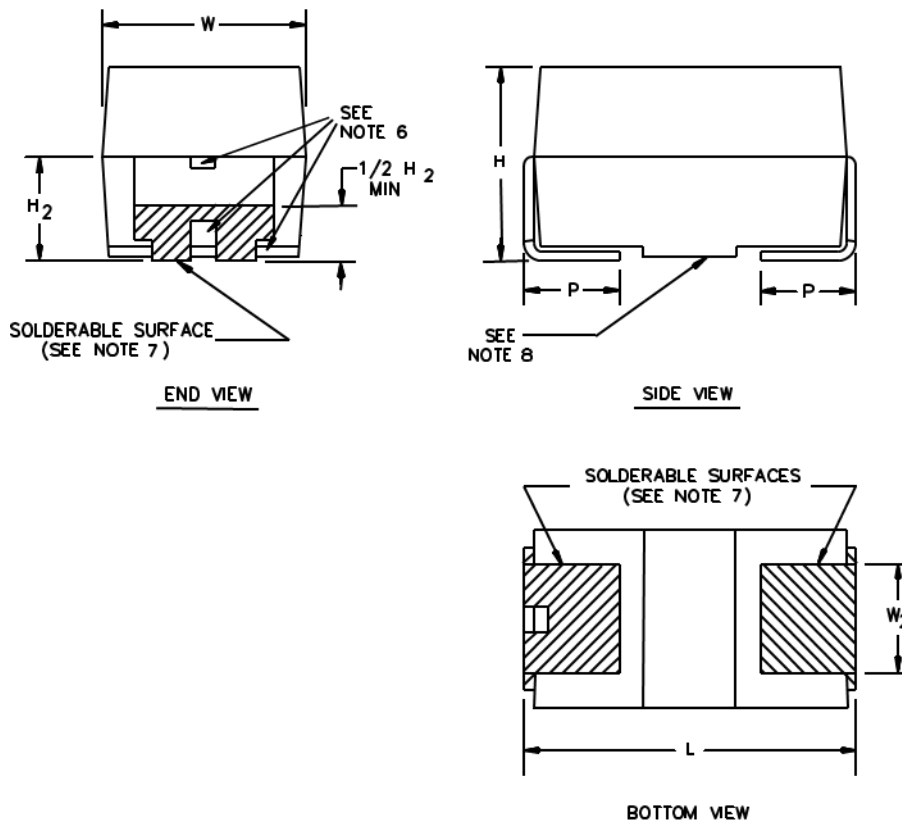


FIGURE 1. Molded single anode chip capacitors.



MIL-PRF-32700/1

Case size	Length (L)	Width (W)	Height (H)	Term. Length (P)	Term. width (W ₂)	H ₂ min
B	.138 ± .008 (3.50 ± 0.20)	.110 ± .012 (2.80 ± 0.30)	.075 ± .012 (1.90 ± 0.30)	.031 ± .012 (0.80 ± 0.3)	.087 ± .008 (2.20 ± 0.20)	.028 (0.71)
C	.236 ± .016 (6.00 ± 0.40)	.126 ± .012 (3.20 ± 0.30)	.098 ± .012 (2.50 ± 0.30)	.051 ± .0120.30 (1.30 ± 0.30)	.087 ± .008 (2.20 ± 0.20)	.039 (0.99)
D	.287 ± .012 (7.30 ± 0.30)	.169 ± .012 (4.30 ± 0.30)	.110 ± .012 (2.80 ± 0.30)	.051 ± .012 (1.30 ± 0.30)	.094 ± .008 (2.40 ± 0.20)	.039 (0.99)

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are in millimeters and are given for general information only.
3. Metric equivalents are in parentheses.
4. These capacitors are designed for mounting by dip soldering, thermo-compression bonding, reflow soldering, or other conventional means.
5. The anode (+) terminal shall be identified by a marking on the case.
6. Shown with optional termination cut-outs.
7. Solderable surfaces are only those surfaces designated as such. Termination edges are not considered solderable.
8. Shown with optional glue pad. At the option of the manufacturer, a glue pad between the solderable surfaces may be included.

FIGURE 1. Molded single anode chip capacitors – Continued.

REQUIREMENTS:

Dimensions and configuration: See [figure 1](#).

Capacitance value: See [table I](#).

Capacitance tolerance: K = ±10 percent, or M = ±20 percent.

Rated voltage: See [table I](#). Above +85°C, voltage derating is required (see [MIL-PRF-32700](#)).

Operating temperature range: -55°C to +125°C.

Termination finish: G or H as specified in [MIL-PRF-32700](#).

Product level: A, X, Y, or Z as specified in [MIL-PRF-32700](#).

DC leakage (DCL): See [table I](#).

Dissipation factor (DF): See [table I](#).

Equivalent series resistance (ESR) at 100 kHz: See [table I](#).

Biased humidity:

Test duration: 500 hours, minimum.

MIL-PRF-32700/1

TABLE I. Capacitor characteristics.

Part or identifying number (PIN) M3270001 <u>1/</u>	DC rated voltage (+85°C)	Cap. (nom)	DC Leakage (max.)			Dissipation factor (max.)				Max ESR 100 kHz	Allowable ripple current (max.) <u>2/</u>		
			+25°C	+85°C	+125°C	+25°C	+85°C	+125°C	-55°C		+25°C	+45°C	+85°C
	<u>Volts</u>	<u>μF</u>	<u>μA</u>	<u>μA</u>	<u>μA</u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>mΩ</u>	<u>mA</u>	<u>mA</u>	<u>mA</u>
D337 - A ---	2.5	330	83	830	996	10	12	15	10	50	2258	1581	565
B107 - B ---	3	100	30	300	360	8	9.6	12	8	100	1127	789	282
B157 - B ---	3	150	45	450	540	8	9.6	12	8	100	1127	789	282
D337 - B ---	3	330	99	990	1188	10	12	15	10	50	2258	1581	565
B686 - C ---	4	68	28	280	336	8	9.6	12	8	100	1127	789	282
B107 - C ---	4	100	40	400	480	8	9.6	12	8	100	1127	789	282
D227 - C ---	4	220	88	880	1056	10	12	15	10	45	2380	1666	595
D337 - C ---	4	330	132	1320	1584	10	12	15	10	60	2062	1443	515
D477 - C ---	4	470	188	1880	2256	10	12	15	10	60	2062	1443	515
B336 - D ---	6.3	33	21	210	252	8	9.6	12	8	100	1127	789	282
B476 - D ---	6.3	47	30	300	360	8	9.6	12	8	100	1127	789	282
B686 - D ---	6.3	68	43	430	516	8	9.6	12	8	100	1127	789	282
D157 - D ---	6.3	150	95	950	1140	10	12	15	10	45	2380	1666	595
D227 - D ---	6.3	220	139	1390	1668	10	12	15	10	60	2062	1443	515
D337 - D ---	6.3	330	208	2080	2496	10	12	15	10	50	2258	1581	565
B226 - F ---	10	22	22	220	264	8	9.6	12	8	100	1127	789	282
B336 - F ---	10	33	33	330	396	8	9.6	12	8	100	1127	789	282
D107 - F ---	10	100	100	1000	1200	10	12	15	10	45	2380	1666	595
D157 - F ---	10	150	150	1500	1800	10	12	15	10	75	1844	1291	461
D476 - H ---	16	47	76	760	912	10	12	15	10	55	2153	1507	538
D686 - H ---	16	68	109	1090	1308	10	12	15	10	95	1638	1147	410
D107 - H ---	16	100	160	1600	1920	10	12	15	10	70	1909	1336	477
D226 - J ---	20	22	44	440	528	10	12	15	10	95	1638	1147	410
D336 - J ---	20	33	66	660	792	10	12	15	10	95	1638	1147	410
D476 - J ---	20	47	94	940	1128	10	12	15	10	95	1638	1147	410
C685 - K ---	25	6.8	17	170	204	10	12	15	10	170	985	690	246
C106 - K ---	25	10	25	250	300	10	12	15	10	170	985	690	246
D156 - K ---	25	15	38	380	456	10	12	15	10	95	1638	1147	410
D226 - K ---	25	22	55	550	660	10	12	15	10	95	1638	1147	410
D336 - K ---	25	33	83	830	996	10	12	15	10	95	1638	1147	410
D226 - L ---	30	22	66	660	792	10	12	15	10	95	1638	1147	410
D336 - L ---	30	33	99	990	1188	10	12	15	10	120	1458	1020	364
D106 - M ---	35	10	53	530	636	10	12	15	10	95	1638	1147	410
D156 - M ---	35	15	53	530	636	10	12	15	10	95	1638	1147	410
D106 - N ---	50	10	50	500	600	10	12	15	10	120	1458	1020	364
D475 - P ---	63	4.7	30	300	360	10	12	15	10	120	1458	1020	364

1/ Complete PIN shall begin with M3270001 and shall include additional symbols to indicate capacitance tolerance, termination finish, product level, and surge current option.

2/ Ripple current limits are given for general information only. Contact the manufacturer for more information.

Custodians:

Army – CR
Navy - EC
Air Force – 85
DLA - CC

Preparing activity:
DLA - CC

(Project 5910-2020-034)

Review activities:

Army - AR, MI
Navy - AS, MC, OS, SH
Air Force - 19
Other – MDA, NA

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <https://assist.dla.mil>.