

INCH-POUND
MIL-PRF-32700/2
w/AMENDMENT 1
27 March 2026
SUPERSEDING
MIL-PRF-32700/2
21 March 2022

PERFORMANCE SPECIFICATION SHEET

CAPACITOR, FIXED, ELECTROLYTIC (CONDUCTIVE POLYMER TANTALUM), SURFACE MOUNT,
NON-ESTABLISHED RELIABILITY AND ESTABLISHED RELIABILITY,
MOLDED MULTIPLE 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](#).

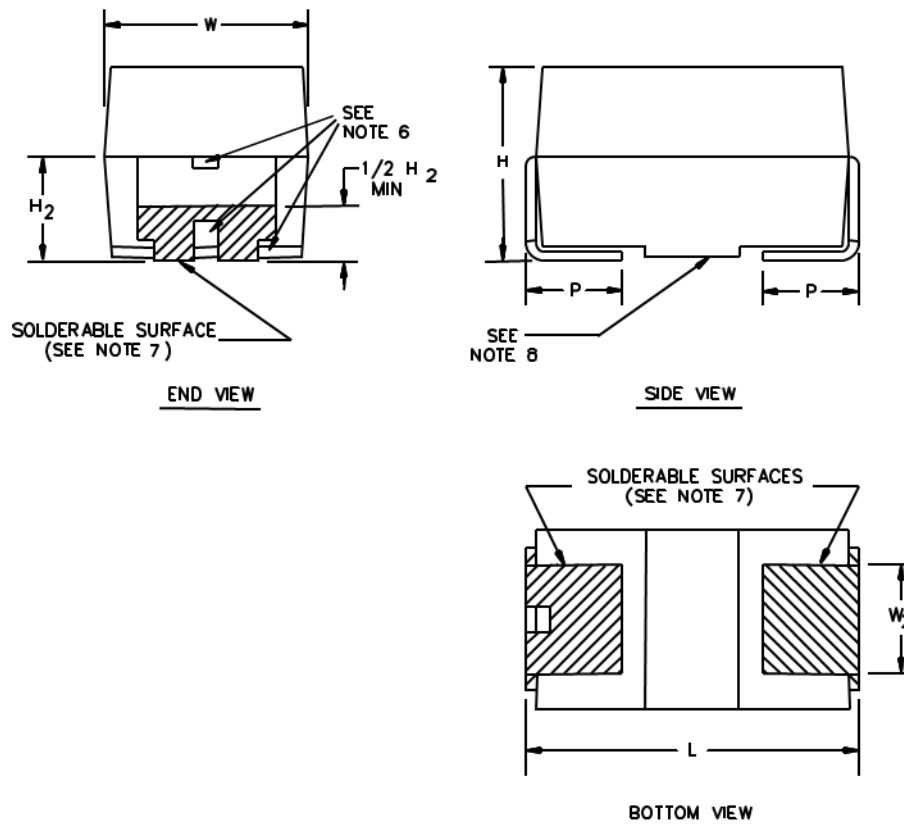


FIGURE 1. Molded multi-anode chip capacitors.



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Case size	Length (L)	Width (W)	Height (H)	Term. Length (P)	Term. width (W ₂)	H ₂ min
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)
E	.287 ± .012 (7.30 ± 0.30)	.169 ± .012 (4.30 ± 0.30)	.157 ± .016 (4.00 ± 0.40)	.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. Total solderable area for the End View is based on the manufacturer's actual H₂ dimension and not the minimum value specified.
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 multi-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.

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TABLE I. Capacitor characteristics.

Part or identifying number (PIN)	DC rated voltage	Cap. (nom)	DC Leakage (max.)			Dissipation factor (max.)				Max ESR 100 kHz	Allowable ripple current (max.) 2/		
			+25°C	+85°C	+125°C	+25°C	+85°C	+125°C	-55°C		+25°C	+45°C	+85°C
M3270002 1/	(+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>
D477 - A ---	2.5	470	118	1180	1416	10	12	15	10	30	3559	2491	890
D687 - A ---	2.5	680	170	1700	2040	10	12	15	10	30	3559	2491	890
E108 - A ---	2.5	1000	250	2500	3000	10	12	15	10	30	3651	2556	913
E158 - A ---	2.5	1500	375	3750	4500	10	12	15	10	30	3651	2556	913
D477 - B ---	3	470	141	1410	1692	10	12	15	10	30	3559	2491	890
D687 - B ---	3	680	204	2040	2448	10	12	15	10	30	3559	2491	890
E108 - B ---	3	1000	300	3000	3600	10	12	15	10	30	3651	2556	913
E158 - B ---	3	1500	450	4500	5400	10	12	15	10	30	3651	2556	913
D337 - C ---	4	330	132	1320	1584	10	12	15	10	30	3559	2491	890
D477 - C ---	4	470	188	1880	2256	10	12	15	10	30	3559	2491	890
E687 - C ---	4	680	272	2720	3264	10	12	15	10	30	3651	2556	913
E108 - C ---	4	1000	400	4000	4800	10	12	15	10	30	3651	2556	913
D227 - D ---	6.3	220	139	1390	1668	10	12	15	10	35	3295	2307	824
E477 - D ---	6.3	470	296	2960	3552	10	12	15	10	30	3651	2556	913
E687 - D ---	6.3	680	428	4280	5136	10	12	15	10	35	3381	2366	845
D157 - F ---	10	150	150	1500	1800	10	12	15	10	30	3559	2491	890
D227 - F ---	10	220	220	2200	2640	10	12	15	10	35	3295	2307	824
E337 - F ---	10	330	330	3300	3960	10	12	15	10	30	3651	2556	913
E477 - F ---	10	470	470	4700	5640	10	12	15	10	40	3162	2214	791
E157 - H ---	16	150	240	2400	2880	10	12	15	10	45	2981	2087	745
E227 - H ---	16	220	352	3520	4224	10	12	15	10	45	2981	2087	745
E337 - H ---	16	330	528	5280	6336	10	12	15	10	35	3381	2366	845
E107 - J ---	20	100	200	2000	2400	10	12	15	10	50	2828	1980	707
E686 - K ---	25	68	170	1700	2040	10	12	15	10	70	2390	1673	598
E107 - K ---	25	100	250	2500	3000	10	12	15	10	80	2236	1565	559
E476 - L ---	30	47	141	1410	1692	10	12	15	10	70	2390	1673	598
E686 - L ---	30	68	204	2040	2448	10	12	15	10	55	2697	1888	674
E107 - L ---	30	100	300	3000	3600	10	12	15	10	50	2828	1980	707
E336 - M ---	35	33	116	1160	1392	10	12	15	10	80	2236	1565	559
E476 - M ---	35	47	165	1650	1980	10	12	15	10	80	2236	1565	559
E226 - N ---	50	22	110	1100	1320	10	12	15	10	95	2052	1436	513
E336 - N ---	50	33	165	1650	1980	10	12	15	10	95	2052	1436	513
E106 - P ---	63	10	63	630	756	10	12	15	10	95	2052	1436	513
E156 - P ---	63	15	95	950	1140	10	12	15	10	70	2390	1673	598

1/ Complete PIN shall begin with M3270002 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.

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

Preparing activity:
DLA - CC

(Project 5910-2026-009)

Review activities:
Army - AR, MI
Navy - AS, MC
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>.