INCH-POUND

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SUPERSEDING
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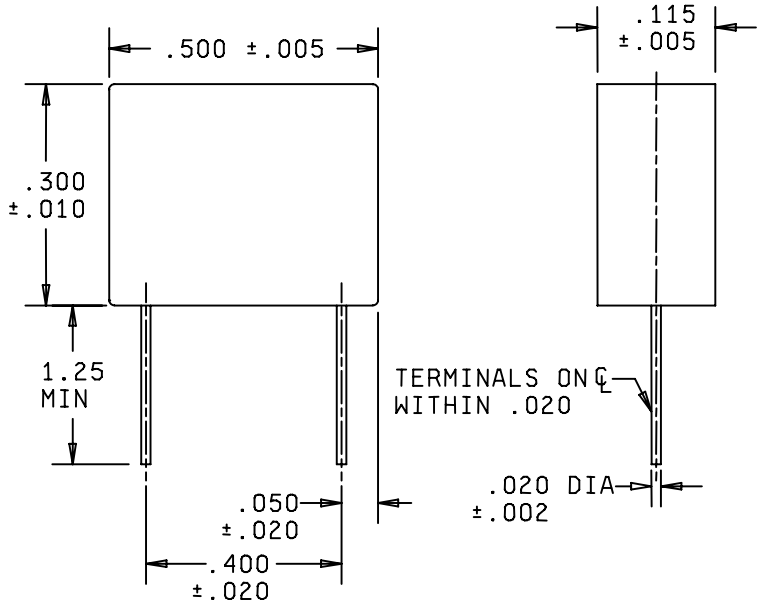
MILITARY SPECIFICATION SHEET

# CAPACITORS, FIXED, GLASS DIELECTRIC
# STYLE CY08

This specification 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-C-11272.

* INACTIVE FOR DESIGN AFTER 7 JAN 1970.
USE MIL-PRF-23269/10, STYLE CYR53.




| Inches | mm | Inches | mm |
|---|---|---|---|
| .002 | 0.05 | .115 | 2.92 |
| .005 | 0.13 | .300 | 7.62 |
| .010 | 0.25 | .400 | 10.16 |
| .020 | 0.51 | .500 | 12.70 |
| .050 | 1.27 | 1.25 | 31.75 |

NOTES:
1. Dimensions are in inches.
2. Metric equivalents are given for general information only.

FIGURE 1. Style CY08 capacitors.

REQUIREMENTS:

Requirements: Requirements shall be in accordance with MIL-C-11272, and as specified herein.

* Dimensions and configuration: See Figure 1.

Material:

Dielectric: Glass.

Case: Epoxy.

* Terminals: Solderable

Capacitance value: See table I.

Capacitance tolerance: F = ±1%; G = ±2%; J = ±5%.

DC rated voltage: 300 volts.

Dissipation factor: Not to exceed 0.001.

* Quality factor (Q): In accordance with MIL-C-11272 and the following:

Not less than 1,000.

* TABLE I. Style CY08.

| PIN 1/ | Capacitance (pF) | DC rated voltage | Capacitance tolerances available |
|---|---|---|---|
| CY08C112- | 1100 | 300 | FGJ |
| CY08C122- | 1200 | 300 | FGJ |
| CY08C132- | 1300 | 300 | FGJ |
| CY08C152- | 1500 | 300 | FGJ |
| CY08C162- | 1600 | 300 | FGJ |
| CY08C182- | 1800 | 300 | FGJ |
| CY08C202- | 2000 | 300 | FGJ |
| CY08C222- | 2200 | 300 | FGJ |
| CY08C242- | 2400 | 300 | FGJ |

1/ Complete PIN will include an additional letter symbol to indicate capacitance tolerance.

* Life: In accordance with MIL-C-11272 and the following:

For qualification test:

At 25°C:

Insulation resistance: Not less than 100,000 megohms.

Capacitance: Change not more than 0.5 percent of nominal value from initial 25°C value.

Dissipation factor: Not to exceed 0.0025.

At 125°C:

Insulation resistance: Not less than 10,000 megohms.

Capacitance: Change not more than 0.5 percent of nominal value from initial 125°C value.

Dissipation factor: Not to exceed 0.007.

For performance check:

Insulation resistance: Not less than 100,000 megohms.

Capacitance: Change not more than 0.5 percent of nominal from initial 25°C value.

Dissipation factor: Not to exceed 0.0025.

Temperature coefficient and capacitance drift: The temperature coefficient and capacitance drift shall be within the limits specified in table II.

TABLE II. Temperature coefficient and capacitance drift.

| Temperature coefficient | Capacitance drift (-55° to +125°C) |
|---|---|
| parts/million/°C<br>140 ±25 | 0.1 percent or 0.1 pF, whichever is greater. |

* Referenced documents. In addition to MIL-C-11272, this document also references the following:

MIL-PRF-23269/10

* Changes from previous issue. The margins of this specification sheet are marked with asterisks to indicate where changes from the previous issue were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the last previous issue.

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* 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 ASSIST Online database at http://assist.daps.dla.mil.