INCH-POUND

MIL-C-11272/2F
4 February 2008
SUPERSEDING
MIL-C-11272/2E
7 February 2003

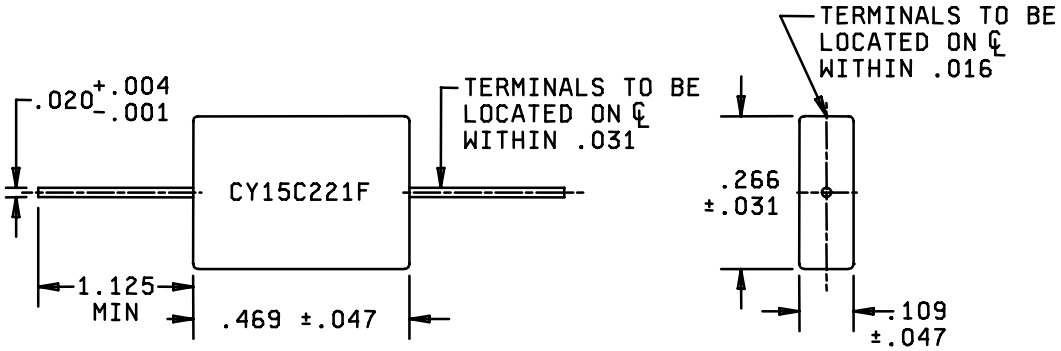
MILITARY SPECIFICATION SHEET

CAPACITORS, FIXED, GLASS DIELECTRIC
STYLE CY15

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-23269/2.



Inches	mm
.001	0.03
.004	0.10
.016	0.41
.020	0.51
.031	0.79
.047	1.19
.109	2.77
.266	6.76
.469	11.91
1.125	28.58

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

FIGURE 1. Style CY15 capacitors.

AMSC N/A FSC 5910

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REQUIREMENTS:

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

* Dimensions and configuration: See figure 1.

Capacitance: See table I.

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

Table I. CY15 Electrical Characteristics

Pin 1/	Capacitance	DC rated voltage	Capacitance tolerances available
	pF	volts	
CY15C221-	220	500	FGJ
CY15C241-	240	500	FGJ
CY15C271-	270	500	FGJ
CY15C301-	300	500	FGJ
CY15C331-	330	500	FGJ
CY15C361-	360	500	FGJ
CY15C391-	390	500	FGJ
CY15C431-	430	500	FGJ
CY15C471-	470	500	FGJ
CY15C511-	510	500	FGJ
CY15C561-	560	300	FGJ
CY15C621-	620	300	FGJ
CY15C681-	680	300	FGJ
CY15C751-	750	300	FGJ
CY15C821-	820	300	FGJ
CY15C911-	910	300	FGJ
CY15C102-	1,000	300	FGJ
CY15C112-	1,100	300	FGJ
CY15C122-	1,200	300	FGJ

* 1/ Complete type designation will include an additional letter symbol to indicate capacitance tolerance.

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* DC rated voltage: 300 and 500 volts (see Table I).

Temperature range: -55°C to +125°C.

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

* For qualification and group B continuation tests:

At 25°C:

Insulation resistance: 100,000 megohms minimum.

* Capacitance: Change not more than 0.5 percent of nominal value or 0.5 pF whichever is greater, from initial 25°C value.

Dissipation factor: Not to exceed 0.0025.

At 125°C:

Insulation resistance: 10,000 megohms minimum.

Capacitance: Change not more than 0.5 percent of nominal value or 0.5 pF whichever is greater, from initial 125°C value.

Dissipation factor: Not to exceed 0.007.

For performance check:

Insulation resistance: 100,000 megohms minimum.

* Capacitance: Change not more than 0.5 percent of nominal value or 0.5 pF whichever is greater, 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 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-23269/2

* 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.

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