

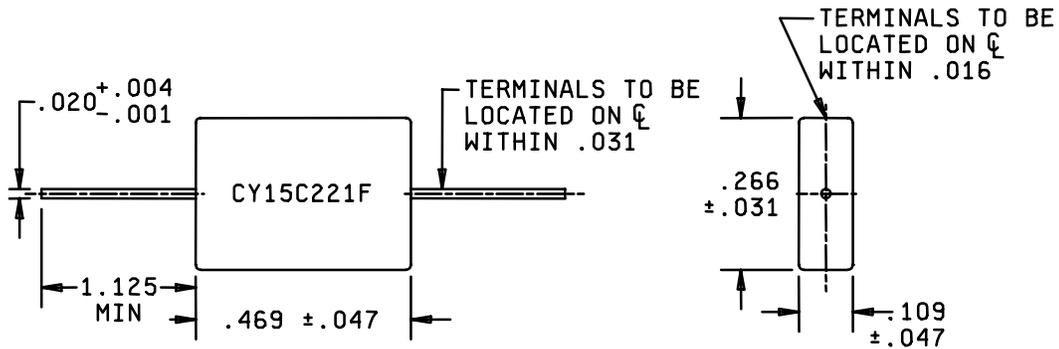
INCH-POUND

MIL-C-11272/2E
7 February 2003
SUPERSEDING
MIL-C-11272/1D
7 January 1970

MILITARY SPECIFICATION
CAPACITORS, FIXED, GLASS DIELECTRIC
STYLE CY15

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

INACTIVE FOR DESIGN AFTER
7 JAN 1970. USE MIL-PRF-23269.



Inches	mm
.001	.03
.004	.10
.016	.41
.020	.51
.031	.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.

Style CY15 capacitors.

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REQUIREMENTS:

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

Design and construction: Capacitors shall be of the design, construction, and physical dimensions specified on figure 1 and in table I.

Pin <u>1</u> /	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, where applicable.

Capacitance: See table I.

Capacitance tolerance: F: 1%, G: 2%, J: 5%.

DC rated voltage: 300 and 500 volts.

Temperature range: -55°C to +125°C.

Life: 150 percent dc rated voltage at 125°C +4°C, -0°C for 2,000 hours.

Group A test - 250 hours: group B continuation test for 1,750 hours.

Qualification inspection. Capacitors shall meet the following requirements, as applicable.

For qualification test:

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 125°C value.

Dissipation factor: Not to exceed 0.0025.

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At 125°C:

Insulation resistance: Not less than 10,000 megohms.

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.

Performance check: Capacitors shall meet the following requirements:

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 125°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.

VERIFICATION:

Sampling and inspection shall be in accordance with MIL-C-11272.

Group A inspection: See MIL-C-11272: Successful performance of group A inspection.

Group B inspection: See MIL-C-11272: Successful performance of group B inspection.

Qualification: With respect to products requiring qualification, awards will be made only for products which are, at the time of award of contract, qualified for inclusion in the applicable Qualified Products List whether or not such products have actually been so listed by that date. The attention of the contractors is called to these requirements, and manufacturers are urged to arrange to have the products that they propose to offer to the Federal Government tested for qualification in order that they may be eligible to be awarded contracts or orders for the products covered by this specification. Information pertaining to qualification of products may be obtained from Defense Supply Center Columbus, P. O. Box 3990, Columbus OH 43216-5000.

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Custodians:

Army - CR
Navy - EC
Air Force - 11
DLA - CC

Preparing activity:
DLA - CC

(Project 5910-2163-02)

Review activities:

Army - MI
Air Force - 99
DLA - IS