

INCH-POUND

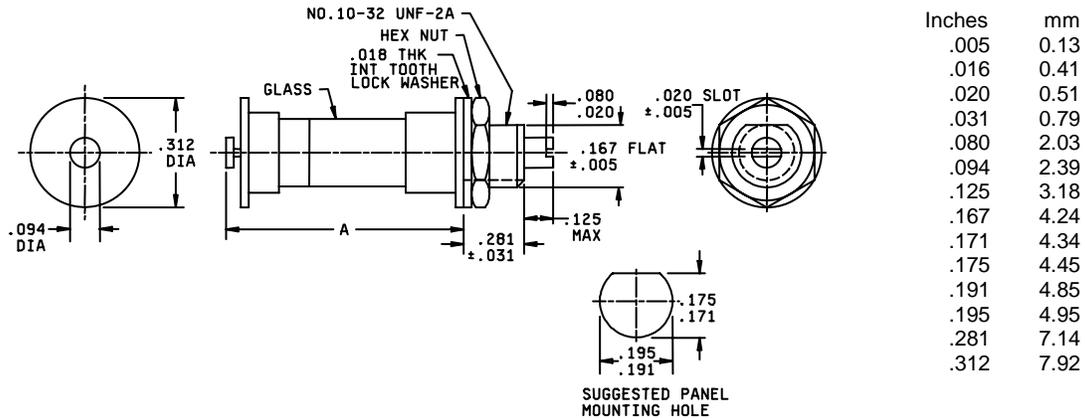
MIL-PRF-14409/5E
15 October 2001
SUPERSEDING
MIL-PRF-14409/5D
25 July 2001

PERFORMANCE SPECIFICATION SHEET

CAPACITORS, VARIABLE (PISTON TYPE,
TUBULAR TRIMMER), STYLE PC39

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

The requirements for acquiring the capacitors described herein shall consist of this document and the latest issue of MIL-PRF-14409.



NOTES:

1. Dimensions are in inches.
2. Metric equivalents (to the nearest 0.01 mm) are given for general information only and are based upon 1 inch = 25.4 mm.
3. Unless otherwise specified, tolerance is ± 0.016 .
4. The flat on the mounting bushing shall extend to the mounting surface of the shoulder.
5. The turret cap shall be soldered to the cylinder with high temperature solder having minimum melting point of 232°C.
6. For dimension A see table I.

FIGURE 1. Dimensions and configuration.

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REQUIREMENTS:

Dimensions: See figure and table I.

DC voltage rating: 1,000 volts.

Construction: Sealed glass, see figure and table I.

Capacitance range: See table I.

Insulation resistance (IR): Method 302 of MIL-STD-202, test condition B (500 volts ± 10 percent); not less than 1,000,000 megohms at room ambient temperature and not less than 100,000 megohms at 125°C.

Quality factor (Q): See table I.

Temperature cycling: Method 102 of MIL-STD-202, test condition D, except the step 3 temperature shall be 125°C ± 5 °C.

Immersion: Method 104 of MIL-STD-202, test condition A.

Seal test: Applicable.

Rotational life:

Capacitance change versus rotation: No reversal greater than 2 percent.

TABLE I. Type designation and characteristics.

Type designation	Capacitance range		Dimensions ^{1/} A \pm .031 (0.79)	Q	Temperature coefficient parts/million/°C	Dielectric material
	Min	Max				
	<u>pF</u>	<u>pF</u>				
PC39G160	1.0	16.0	.469 (11.91)	750	± 150	Glass
PC39G360	1.0	36.0	.703 (17.86)	550	± 150	Glass
PC39G520	1.0	52.0	.922 (23.42)	350	± 150	Glass
PC39G750	1.0	75.0	1.172 (29.77)	250	± 150	Glass
PC39G121	1.0	120.0	1.766 (44.86)	250	± 150	Glass
PC39J121	1.0	120.0	1.766 (44.86)	250	± 50	Glass

^{1/} Metric equivalents (to the nearest 0.01 mm) are given for general information only and are based upon 1 inch = 25.4 mm. Millimeters are in parentheses.

Custodians:
 Army - CR
 Navy - EC
 Air Force - 11

Preparing activity:
 DLA - CC
 (Project 5910-2168)

Review activities:
 Navy - AS, MC, OS