

INCH-POUND

MIL-PRF-14409/3C
25 July 2001
SUPERSEDING
MIL-PRF-14409/3B
15 April 1975

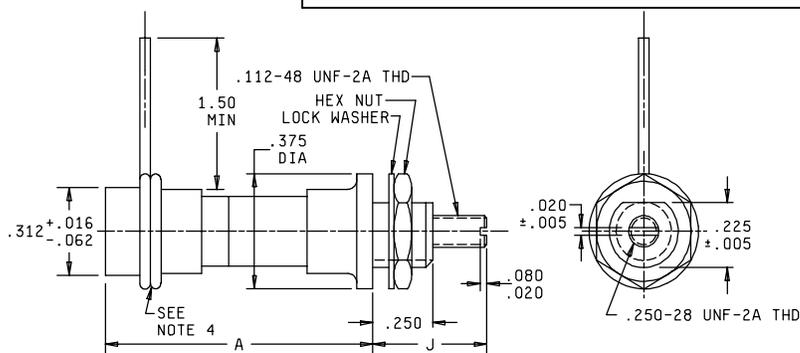
PERFORMANCE SPECIFICATION SHEET

CAPACITORS, VARIABLE (PISTON TYPE,
TUBULAR TRIMMER), STYLE PC37

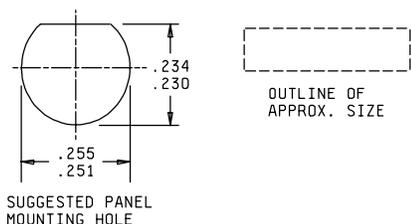
This specification is approved for use by all Departments and Agencies of the Department of Defense.

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

NOT FOR NEW DESIGN
FOR REPLACEMENT PURPOSES ONLY



Inches	mm
.005	0.13
.016	0.41
.020	0.51
.062	1.57
.080	2.03
.112	2.84
.225	5.72
.230	5.84
.234	5.94
.250	6.35
.251	6.38
.255	6.48
.312	7.92
.375	9.53
1.50	38.10



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 $\pm .016$.
4. There shall be a minimum of one and one-half turns of AWG size 22 wire around the body. These turns of wire shall be completely soldered to the body.
5. The flat on the mounting bushing shall extend to the mounting surface of the shoulder.
6. For dimensions A and J, see table I.

FIGURE 1. Dimensions and configuration.

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REQUIREMENTS:

Dimensions: See figure and table I.

DC voltage rating: 750 volts.

Construction: Quartz, see figure and table I.

Capacitance range: See table I.

Insulation resistance (IR): Method 302 of MIL-STD-202, test condition B (500 volts \pm 10 percent); not less than 1,000,000 megohms throughout temperature range.

Quality factor (Q): See table I.

Thermal shock: Method 107 of MIL-STD-202, test condition A, except that the step 3 temperature shall be 150°C \pm 5°C.

Barometric pressure (reduced): Not applicable.

TABLE I. Type designation and characteristics.

Type designation	Capacitance range		Dimensions <u>1/</u>		Q	Dielectric material
	Min	Max	J (max)	A \pm .031 (0.79)		
	<u>pF</u>	<u>pF</u>				
PC37Q4R5	0.7	4.5	.547 (13.89)	.438 (11.13)	1,500	Quartz
PC37Q060	0.6	6.0	.906 (23.01)	.625 (15.88)	1,500	Quartz
PC37Q100	0.8	10.0	.891 (22.63)	1.000 (25.40)	1,500	Quartz
PC37Q210	9.0	21.0	1.000 (25.40)	1.594 (40.49)	1,500	Quartz

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 5910-2111-02)

Review activities:
 Navy - AS, MC, OS