

INCH POUND

MIL-PRF-14409/19C
25 July 2001
SUPERSEDING
MIL-PRF-14409/19B
11 January 1993

PERFORMANCE SPECIFICATION SHEET

CAPACITORS, VARIABLE (PISTON TYPE,
TUBULAR TRIMMER), STYLES PC19 AND PC47.

This specification sheet 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 specification MIL-PRF-14409.

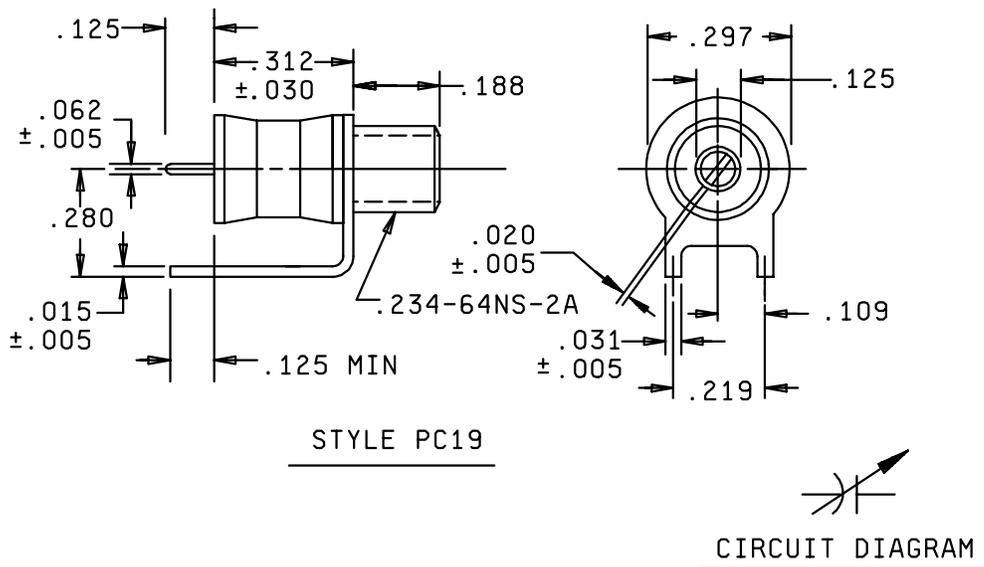
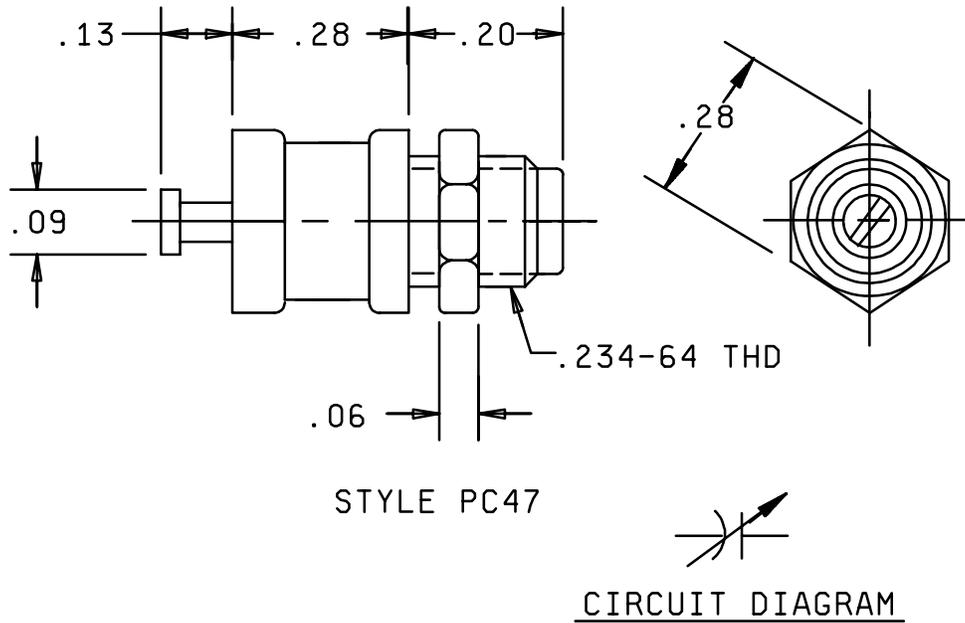


FIGURE 1. Dimensions and configurations.



Inches	mm
.005	0.13
.015	0.38
.020	0.51
.030	0.76
.031	0.79
.06	1.5
.062	1.57
.09	2.3
.109	2.77
.125	3.18
.13	3.30
.188	4.78
.219	5.56
.234	5.94
.280	7.11
.297	7.54
.312	7.92

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are for information only.
3. Unless otherwise specified, tolerance is ± 0.016 (0.41 mm).
4. Solder, if used, shall be high temperature solder having a melting point of $300^{\circ}\text{C} +50^{\circ}\text{C}, -5^{\circ}\text{C}$.

FIGURE 1. Dimensions and configurations - Continued.

MIL-PRF-14409/19C

REQUIREMENTS:

Dimensions and configuration: See figure 1 and table I.

DC voltage rating: See table I.

Construction: Alumina ceramic, O-ring sealed.

Dielectric: Air.

Capacitance range: See table I.

Insulation resistance: Shall be not less than 1,000,000 megohms at room ambient temperature and not less than 100,000 megohms at 125°C.

Test condition - 250 volts \pm 10 percent.

Quality factor (Q): See table I (measured at frequency of 100 \pm 10 MHz).

Driving torque: Greater than or equal to 0.5 and less than or equal to 5.0 ounce-inches from -55°C to +125°C.

Thermal shock: Method 107 of MIL-STD-202, test condition A, except step 3 temperature shall be +125° \pm 5°C.

Immersion: In accordance with method 104 of MIL-STD-202, test condition A.

Resistance to soldering heat: In accordance with MIL-PRF-14409.

Seal: In accordance with MIL-PRF-14409.

TABLE I. Type designation and characteristics.

PIN ^{1/}	Capacitance range		Voltage rating	Q minimum
	pF	pF		
PC--L100	1.0	10	250	5,000
PC--L140	1.0	14	125	3,000

^{1/} Complete PIN shall include additional symbols to indicate style.

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

Preparing activity:
 DLA - CC

Review activities:
 Navy - AS, MC, OS

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