

PERFORMANCE SPECIFICATION SHEET

CAPACITOR, VARIABLE (PISTON TYPE,
TUBULAR TRIMMER), STYLES PC18 AND PC46

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 specification sheet and [MIL-PRF-14409](#).

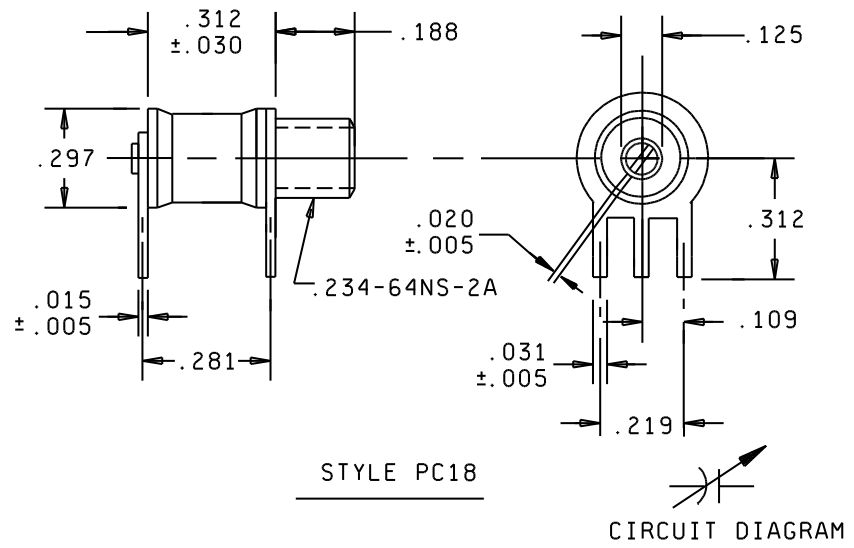
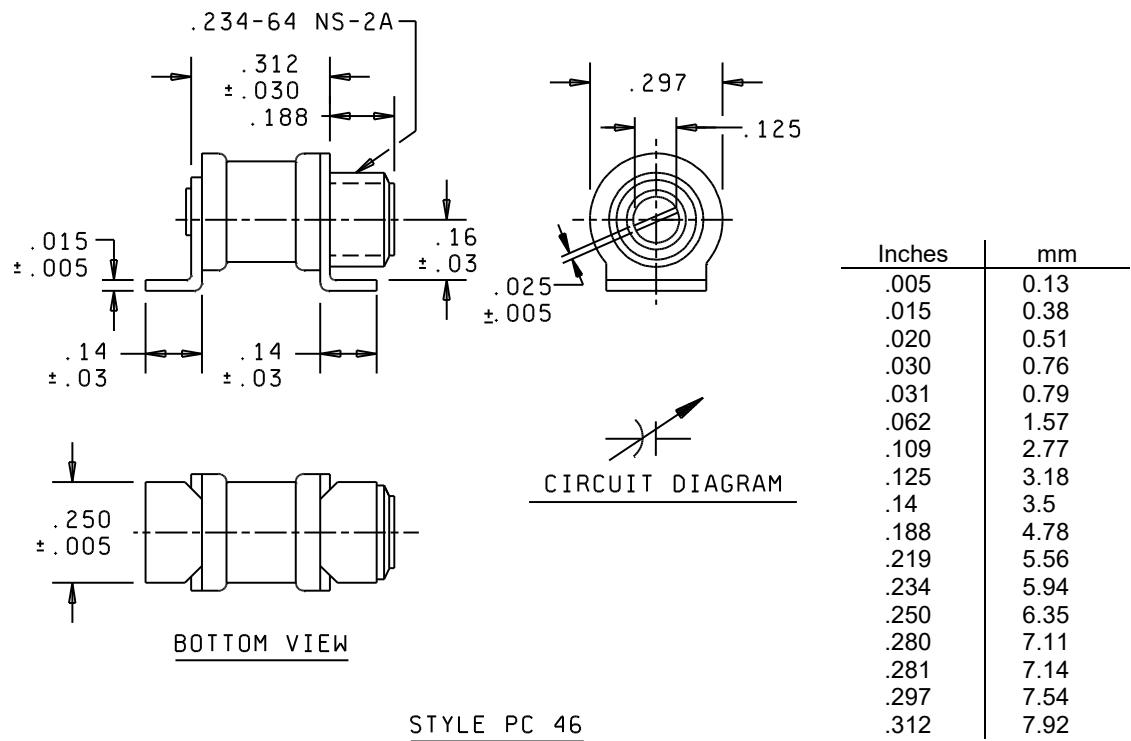


FIGURE 1. Dimensions and configurations.





- NOTES:
1. Dimensions are in inches.
 2. Metric equivalents are in millimeters and are for information only.
 3. Unless otherwise specified, tolerance is $\pm .016$ inch (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°C .

FIGURE 1. Dimensions and configurations - continued.

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](#).

MIL-PRF-14409/18F

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: [MIL-STD-202-107](#), test condition A, except step 3 temperature shall be +125° $\pm$ 5°C.

Immersion: In accordance with [MIL-STD-202-104](#), test condition A.

Resistance to soldering heat: In accordance with [MIL-PRF-14409](#).

Seal: In accordance with [MIL-PRF-14409](#).

TABLE I. Capacitor characteristics.

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

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

Changes from previous issue. The margins of this specification are marked with vertical lines 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 previous issue.

Referenced documents: In addition to [MIL-PRF-14409](#), this document also references the following:

[MIL-STD-202-104](#)
[MIL-STD-202-107](#)

Custodians:
 Army - CR
 Navy - EC
 Air Force - 85
 DLA - CC

Preparing activity:
 DLA - CC
 (Project 5910-2026-016)

Review activities:
 Navy - AS, MC

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 the ASSIST Online database at <https://assist.dla.mil/>.