

PERFORMANCE SPECIFICATION SHEET

CAPACITORS, VARIABLE (PISTON TYPE,
TUBULAR TRIMMER), STYLES PC30, PC32, PC34

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](#).

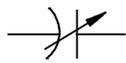
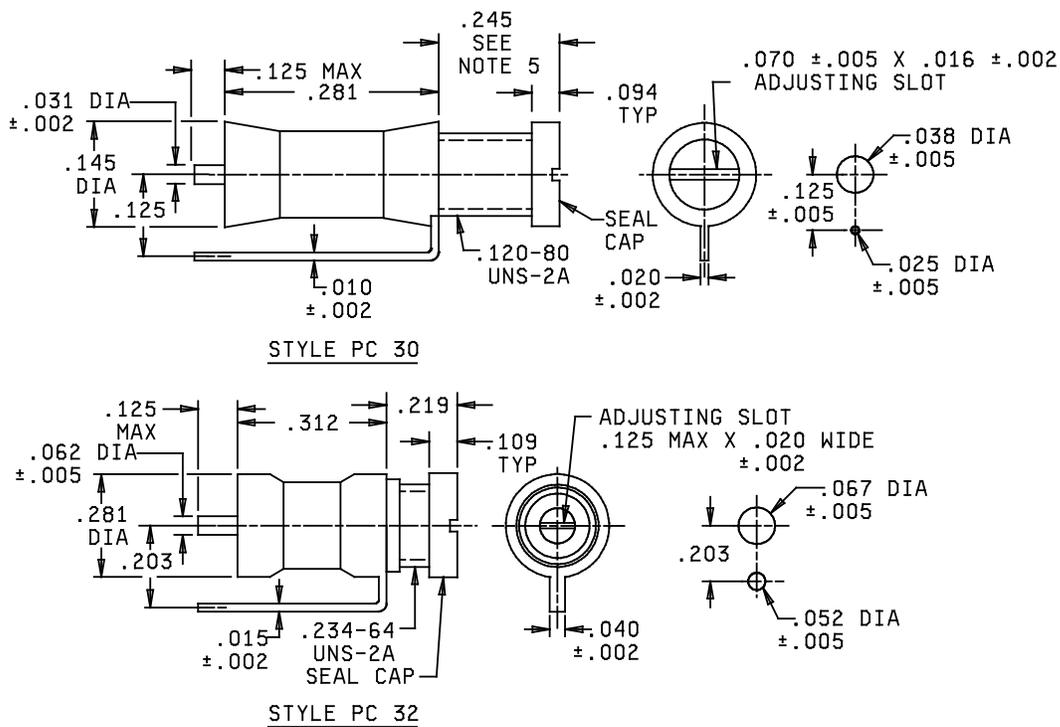
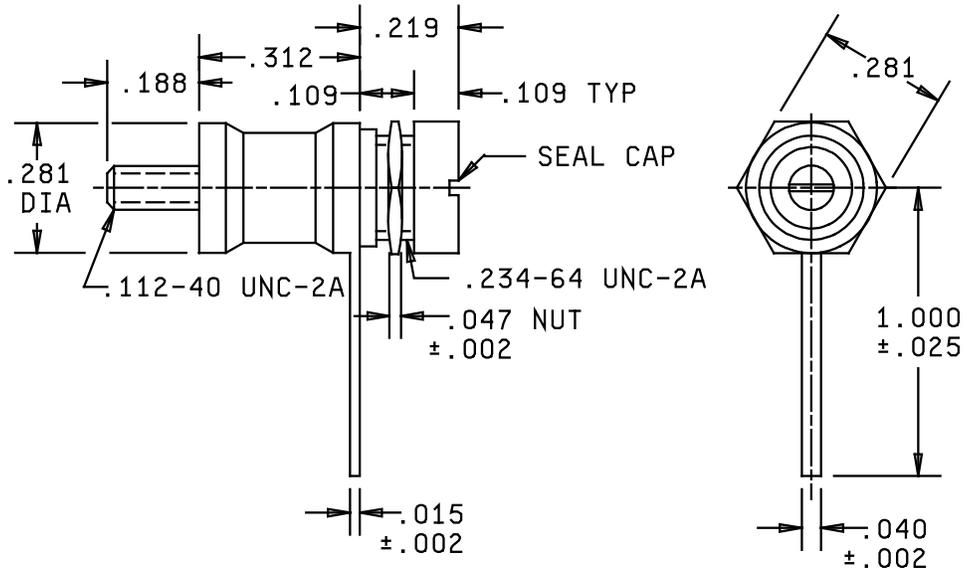


FIGURE 1. Dimensions and configuration.



STYLE PC 34

Inches	mm	Inches	mm	Inches	mm	Inches	mm
.002	0.05	.038	0.97	.093	2.36	.203	5.17
.005	0.13	.040	1.02	.109	2.77	.214	5.44
.010	0.25	.047	1.19	.112	2.84	.219	5.56
.015	0.38	.052	1.32	.120	3.05	.234	5.94
.016	0.41	.062	1.57	.125	3.18	.245	6.22
.020	0.51	.067	1.70	.145	3.68	.281	7.14
.025	0.64	.070	1.78	.156	3.96	.312	7.92
.031	0.79	.078	1.98	.188	4.78	1.000	25.40

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerance is ± .016 inch (0.41 mm).
4. Seal cap shall be slotted.
5. For PIN PC30J5R0, this dimension shall be .280 inch (7.11 mm).

FIGURE 1. Dimensions and configurations - Continued.

REQUIREMENTS:

Dimensions and configuration: See [figure 1](#).

DC voltage rating: 250 volts.

Construction: Alumina ceramic.

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 ±10 percent.

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

Driving torque:

Style PC30: Greater than or equal to 0.3 ounce-inches and less than or equal to 5 ounce-inches from -55°C to +125°C

Style PC32 and PC34: Greater than or equal to 0.5 ounce-inches and less than or equal to 5 ounce-inches from -65°C to +125°C.

Thermal shock: [Method 107 of MIL-STD-202](#), test condition B (characteristic T) or A (characteristic J), except the step 3 temperature shall be +125°C ±5°C.

Immersion: [Method 104 of MIL-STD-202](#), test condition A.

Seal: Applicable, with seal cap on.

TABLE I. Capacitor characteristics.

Part or Identifying Number (PIN)	Capacitance range		Q minimum
	Min	Max	
PC30J3R5	0.6 pF	3.5 pF	10,000
PC30J5R0	0.6	5.0	7,500
PC32T140	1.5	14.0	3,000
PC34T100	0.8	10.0	2,000

Qualification inspection: Qualification inspection is not required. A manufacturer that is currently listed on the QPL for at least one other [MIL-PRF-14409](#) style may supply PC30, PC32, and PC34 parts by performing the group A and group B testing. A manufacturer that is not qualified to any [MIL-PRF-14409](#) styles may produce these parts by performing the group A, group B, and group C testing on the product before delivery.

| 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 last previous issue.

| Referenced documents. In addition to [MIL-PRF-14409](#), this document references [MIL-STD-202](#).

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

Preparing activity:
DLA - CC

Review activities:
Navy - AS, MC, OS
Air Force - 99

(Project 5910-2010-021)

| 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.daps.dla.mil/>.