

INCH POUND

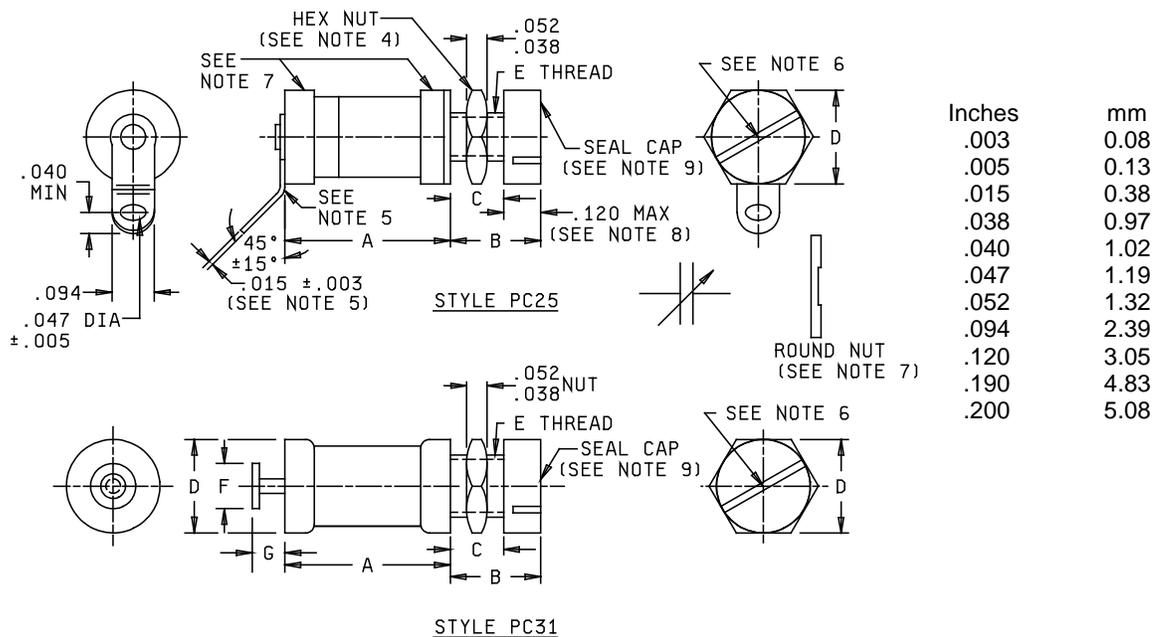
MIL-PRF-14409/12H
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SUPERSEDING
MIL-PRF-14409/12G
25 July 2001

PERFORMANCE SPECIFICATION SHEET

CAPACITORS, VARIABLE (PISTON TYPE,
TUBULAR TRIMMER), STYLES PC25 AND PC31

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](#).



NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general 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 $300^{\circ}\text{C} \pm 5^{\circ}\text{C}$.
5. Bend-point of terminals at turret shall be within the radius of the turret cap. For PIN PC25J060, terminal may be perpendicular to the body, .225 inch (5.72 mm) maximum length.
6. Screw slot shall be $.020 \pm .005$ inch (0.51 ± 0.13 mm) wide x .020 inch (0.51 mm) to .080 inch (2.03 mm) deep x .094 inch (2.39 mm) minimum long.
7. Round nut shall be furnished on parts with .190-64 thread.
8. Seal cap shall be .100 inch (2.54 mm) maximum for parts with .190-64 thread.
9. Seal cap shall be slotted.

FIGURE 1. Dimensions and configurations.

TABLE I. Capacitor characteristics.

Part or Identifying Number (PIN)	Capacitance range		Q Min	Dimensions 1/						
	Min	Max		A ± .020 (0.51)	B Max	C ± .016 (0.41)	D	E	F	G
	<u>PF</u>	<u>PF</u>								
PC25J060	0.6	6.0	10,000	.281 (7.14)	.260 (6.60)	.141 (3.58)	.220 (5.59)	.190-64 UNS-2A	---	---
PC25J100	0.8	10.0	5,000	.288 (7.32)	.260 (6.60)	.130 (3.30)	.281 (7.14)	.234-64 UNS-2A	---	---
PC25J140	1.0	14.0	3,000	.288 (7.32)	.260 (6.60)	.130 (3.30)	.281 (7.14)	.234-64 UNS-2A	---	---
PC25J200	1.0	20.0	1,500	.500 (12.70)	.300 (7.62)	.170 (4.32)	.281 (7.14)	.234-64 UNS-2A	---	---
PC31J060	0.6	6.0	10,000	.281 (7.14)	.260 (6.60)	.141 (3.58)	.220 (5.59)	.190-64 UNS-2A	.063 (1.60)	.078 (1.98)
PC31J100	0.8	10.0	5,000	.288 (7.32)	.260 (6.60)	.130 (3.30)	.281 (7.14)	.234-64 UNS-2A	.094 (2.39)	.109 (2.77)
PC31J140	1.0	14.0	3,000	.288 (7.32)	.260 (6.60)	.130 (3.30)	.281 (7.14)	.234-64 UNS-2A	.094 (2.39)	.109 (2.77)
PC31J200	1.0	20.0	1,500	.500 (12.70)	.300 (7.62)	.170 (4.32)	.281 (7.14)	.234-64 UNS-2A	.094 (2.39)	.109 (2.77)

1/ Metric equivalents are shown in parentheses for information only.

REQUIREMENTS:

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

DC voltage rating: 250 volts.

Construction: Alumina ceramic.

Dielectric: Air.

Capacitance range: See table I.

Insulation resistance: Shall not be 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 percent).

Driving torque: Greater than or equal to 0.5 ounce-inches and less than or equal to 6.0 ounce-inches from -55°C through +125°C, except that styles with .220 diameter shall be 0.4 ounce-inches to 4.0 ounce-inches.

Thermal shock: [Method 107 of MIL-STD-202](#), test condition 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.

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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 PC25 and PC31 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

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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/>.