

INCH POUND

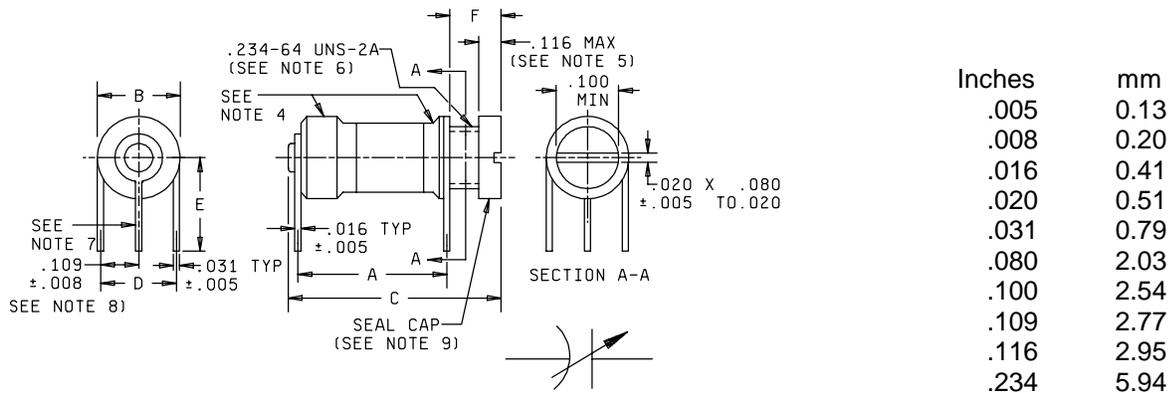
MIL-PRF-14409/13L
25 July 2001
SUPERSEDING
MIL-PRF-14409/13K
30 September 1982

PERFORMANCE SPECIFICATION SHEET

CAPACITORS, VARIABLE (PISTON TYPE,
TUBULAR TRIMMER), STYLES PC26

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.



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. If solder is used the soldering of the turret cap to the cylinder, and of the cylinder to the base and to the base leads shall be accomplished with a high temperature solder having a melting point of $300^{\circ}\text{C} +50^{\circ}\text{C}, -5^{\circ}\text{C}$
5. For type PC26J060, dimension shall be $.094 \pm .005$ (2.39 mm $\pm .13$ mm).
6. For type PC26J060, thread shall be .190-64 UNS-2A.
7. For type PC26J300, two terminals shall be used of same size and length as front terminals.
8. For type PC26J060, dimension shall be $.078 \pm .008$ (1.95 $\pm .20$ mm).
9. Seal cap shall be slotted.

FIGURE 1. Dimensions and configurations.

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TABLE I. Type designation and characteristics.

Type designation	Capacitance range		Q Min	Dimensions					
	Min	Max		A ± .025 (0.64)	B Max	C Max	D	E	F
	<u>pF</u>	<u>pF</u>							
PC26J060	0.6	6.0	10,000	.266 (6.76)	.220 (5.59)	.541 (13.74)	.156 (3.96)	.250 (6.35)	.240 (6.10)
PC26T100	0.8	10.0	5,000	.297 (7.54)	.281 (7.14)	.578 (14.68)	.219 (5.56)	.312 (7.92)	.211 (5.36)
PC26J100	0.8	10.0	5,000	.297 (7.54)	.281 (7.14)	.578 (14.68)	.219 (5.56)	.312 (7.92)	.211 (5.36)
PC26T140	1.0	14.0	3,000	.297 (7.54)	.281 (7.14)	.578 (14.68)	.219 (5.56)	.500 (12.70)	.218 (5.54)
PC26J140	1.0	14.0	3,000	.297 (7.54)	.281 (7.14)	.578 (14.68)	.219 (5.56)	.500 (12.70)	.218 (5.54)
PC26T200	1.0	20.0	1,500	.562 (14.27)	.281 (7.14)	.801 (20.35)	.219 (5.56)	.500 (12.70)	.196 (4.98)
PC26J200	1.0	20.0	1,500	.562 (14.27)	.281 (7.14)	.801 (20.35)	.219 (5.56)	.500 (12.70)	.196 (4.98)
PC26J300	1.0	30.0	800	.750 (19.05)	.281 (7.14)	.969 (24.61)	.219 (5.56)	.500 (12.70)	.196 (4.98)

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.

Test frequency - 100 MHz ±10 MHz.

Driving torque: Greater than or equal to 0.5 and less than or equal to 6.0 ounce-inches from -55°C through +125°C (characteristic J) or -65°C through +125°C (characteristic T). Type PC26J060 shall be 0.4 and 4.0 ounce-inches.

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.

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Immersion: Method 104 of MIL-STD-202, test condition A.

Resistance to soldering heat: Applicable.

Seal: Applicable, with seal cap on.

NOTE: Revision letters are not used to denote changes due to the extensiveness of the changes.

Custodians:

Army - CR
Navy - EC
Air Force - 11

Preparing activity:

DLA - CC

Review activities:

Navy - AS, MC, OS

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