

INCH POUND

MIL-PRF-14409/17C

11 June 2010

SUPERSEDING

MIL-PRF-14409/17B

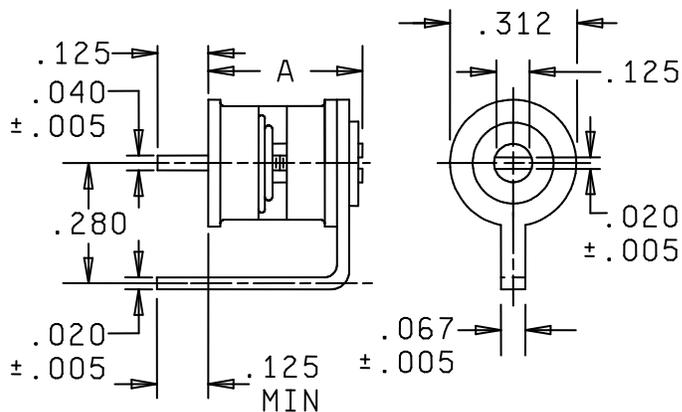
05 December 2006

PERFORMANCE SPECIFICATION SHEET

CAPACITORS, VARIABLE (PISTON TYPE,
TUBULAR TRIMMER), STYLE PC17

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](#).



CIRCUIT DIAGRAM

Inches	mm	Inches	mm
.005	0.13	.067	1.70
.016	0.41	.125	3.18
.020	0.51	.280	7.11
.040	1.02	.312	7.92

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are for information only.
3. Unless otherwise specified, tolerance is ± .016 (0.41 mm).

FIGURE 1. Dimensions and configuration.

REQUIREMENTS:

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

DC voltage rating: 250 volts.

Construction: Glass, O-ring sealed.

Dielectric: Glass.

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.

Driving torque: Greater than or equal to 0.5 ounce-inches 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° ±5°C.

Immersion: [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. Capacitor characteristics.

Part or Identifying Number (PIN)	Capacitance range		Q minimum	Dimensions ^{1/} A ± .030 (0.76)
	Min pF	Max pF		
PC17J5R5	1.0	5.5	1000	.390 (9.91)
PC17J8R5	1.0	8.5	650	.535 (13.59)
PC17G100	1.5	10	800	.340 (8.64)
PC17G200	1.5	20	800	.410 (10.41)
PC17G300	1.5	30	800	.490 (12.45)
PC17G400	1.5	40	800	.600 (15.24)

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

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 PC17 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.

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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 also references [MIL-STD-202](#).

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

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>.