

INCH-POUND

MIL-C-11015/29E
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SUPERSEDING
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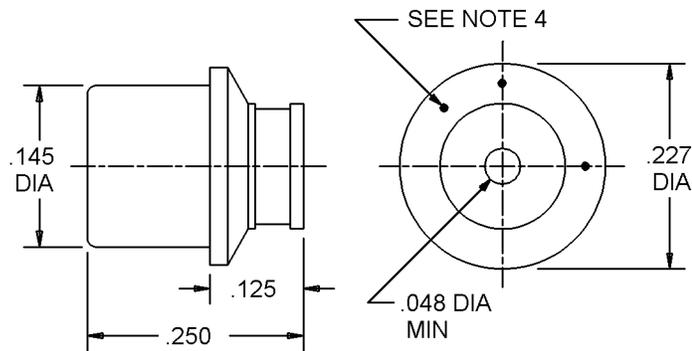
MILITARY SPECIFICATION SHEET

CAPACITORS, FIXED, CERAMIC DIELECTRIC (GENERAL PURPOSE),
(FEED-THRU OR STAND-OFF)
STYLES CK74, CK75, CK78, CK79, AND CK85

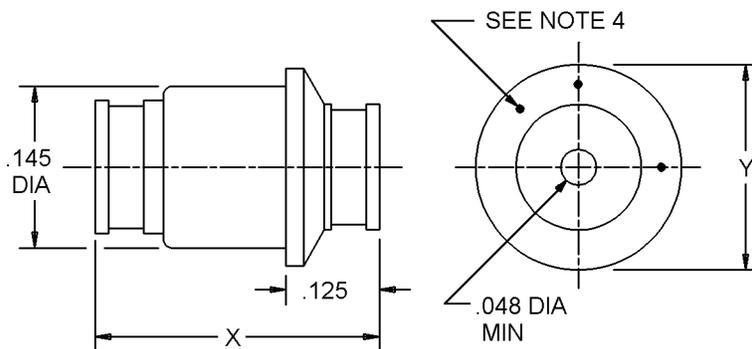
This specification is approved for use by all Departments and Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification and MIL-C-11015.

INACTIVE FOR NEW DESIGN AFTER 7 APRIL 1999.
FOR REPLACEMENT PURPOSES ONLY



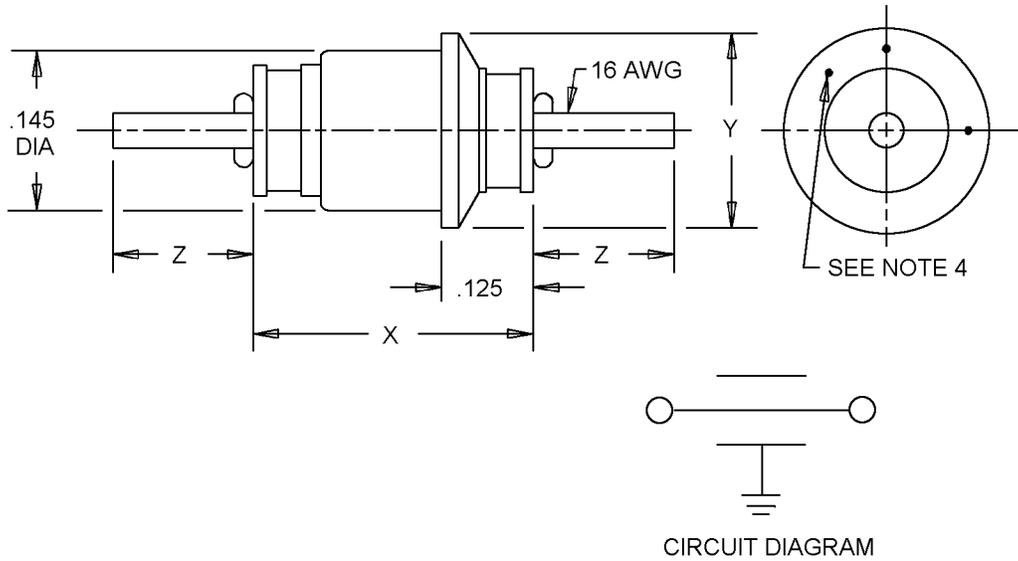
Style CK85



Styles CK75 and CK79

FIGURE 1. Dimensions and configuration.

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Styles CK74 and CK78

STYLE	X	Y	Z	Inches	mm
				.048	1.22
CK74	.395	.227	.250	.125	3.18
CK75	.380	.227	---	.145	3.68
CK78	.250	.195	.125	.195	4.95
CK79	.250	.195	---	.227	5.77
				.250	6.35
				.380	9.65
				.395	10.03

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerance is ± 0.015 (.38 mm).
4. Color dots indicating capacitance value read clockwise starting with 10 o'clock dot. Dots to be located at approximately 10, 12, and 3 o'clock.

FIGURE 1. Dimensions and configuration - Continued.

TABLE I. Styles CK74, CK75, CK78, CK79, and CK85 characteristics.

PIN ^{1/}	Capacitance value	PIN ^{1/}	Capacitance value
	pF		pF
CK--BX100M	10	CK78AW681M	680
CK--BX150M	15	CK79AW681M	680
CK--BX220M	22	CK85AW681M	680
CK--BX330M	33	CK74BX102M	1,000
CK--BX470M	47	CK75BX102M	1,000
CK--BX680M	68	CK78AW102M	1,000
CK--BX101M	100	CK79AW102M	1,000
CK--BX151M	150	CK85AW102M	1,000
CK--BX221M	220	CK7-AW152M	1,500
CK--BX331M	330	CK7-AW182M	1,800
CK--BX471M	470	CK74AW222M	2,200
CK--BX501M	500	CK75AW222M	2,200
CK74BX681M	680	CK74AW332M	3,300
CK75BX681M	680	CK75AW332M	3,300

^{1/} Where applicable, the complete PIN will include digit(s) to indicate style.

REQUIREMENTS

Design and construction:

Dimensions and configuration: See figure 1.

Case type: Feed-thru or standoff (solder mount).

Capacitance value: See table I.

Capacitance tolerance: ± 20 percent (M).

Rated temperature: -55°C to $+125^{\circ}\text{C}$.

Rated voltage: Styles CK74 and CK75, 500 volts dc, to $+85^{\circ}\text{C}$; styles CK78, CK79, and CK85, 300 volts dc, to $+85^{\circ}\text{C}$. Linearly derate to 50 percent at $+125^{\circ}\text{C}$.

Dielectric withstanding voltage (DWV): In accordance with MIL-C-11015.

Dielectric:

Test voltage: 750 ± 20 volts dc applied between the terminal and the mounting flange.

Body insulation: Not applicable.

Barometric pressure (reduced): In accordance with MIL-C-11015 and method 105 of MIL-STD-202, condition B (50,000 ft).

Test potential: 750 ± 20 volts dc applied between the terminal and the mounting flange.

Insulation resistance (IR): In accordance with MIL-C-11015 and method 302 of MIL-STD-202, condition B. 10,000 megohms, minimum, measured between the terminal and the mounting flange.

Dissipation factor (DF): 3.0 percent maximum.

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Vibration, high frequency: In accordance with MIL-C-11015 and method 204 of MIL-STD-202, condition B (15 g's).

Thermal shock and immersion: In accordance with MIL-C-11015.

IR: 1,000 megohms, minimum.

* Salt atmosphere (corrosion): Not applicable.

Terminal strength: Not applicable.

Moisture resistance: In accordance with MIL-C-11015.

IR: 1,000 megohms, minimum.

Δ Cap.: Within ± 10 percent of initial measurement.

Solderability: In accordance with MIL-C-11015; 1 terminal.

Resistance to soldering heat: Not applicable.

Voltage-temperature limits: In accordance with MIL-C-11015 (symbol BX or AW as specified in table I).

Life (at elevated ambient temperature): In accordance with MIL-C-11015.

Test potential: 200 percent of rated voltage.

IR: 2,500 megohms, minimum (at 85°C).

5,000 megohms, minimum (at 25°C).

DF: 5 percent, maximum (at 25°C).

Marking: Capacitors shall be marked as shown on the figure (marking shall conform to method II of MIL-STD-1285). The PIN, date and source codes, manufacturer's name or trademark, capacitance, and dc rated voltage shall be marked on the package.

Changes from previous issue: The margins of this specification sheet are marked with asterisks 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.

Custodians:
Navy – EC
DLA - CC

Preparing activity:
DLA - CC
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