

INCH-POUND

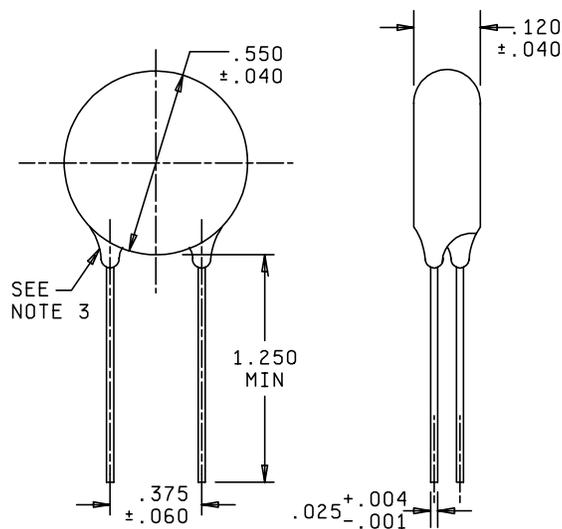
MIL-C-11015/11F  
14 May 2001  
SUPERSEDING  
MIL-C-11015/11E  
10 July 1980

MILITARY SPECIFICATION SHEET  
CAPACITORS, FIXED, CERAMIC DIELECTRIC (GENERAL PURPOSE),  
STYLE CK62

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 31 MARCH 1999.  
FOR REPLACEMENT PURPOSES ONLY.



Inches	mm
.001	.03
.004	.10
.025	.64
.040	1.02
.060	1.52
.120	3.05
.375	9.53
.550	13.97
1.250	31.75

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Insulating coating shall not extend more than .125 (3.18 mm) along lead wires measured from a tangent to the coating surface drawn perpendicular to the lead wires.

FIGURE 1. Dimensions and configuration.

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TABLE I. Style CK62 characteristics.

PIN <sup>1/</sup>	Rated voltage	Rated temperature and voltage temperature limits	Capacitance	Capacitance tolerance
	Volts, dc		pF	
CK62AY220M-	1,500	AY	22	M
CK62AY470M-	1,500	AY	47	M
CK62AY101M-	1,500	AY	100	M
CK62AY221M-	1,500	AY	220	M
CK62AY471M-	1,500	AY	470	M
CK62BX821K-	500	BX	820	K
CK62BX102--	500	BX	1,000	K, M
CK62BX152--	500	BX	1,500	K, M
CK62AX222--	500	AX	2,200	K, M
CK62AW332M-	500	AW	3,300	M
CK62AW472M-	500	AW	4,700	M
CK62AW682M-	500	AW	6,800	M

<sup>1/</sup> Where applicable, the complete PIN will include an additional symbol to indicate capacitance tolerance. The PIN will also include the letter "E" to indicate an epoxy coated capacitor (when applicable) or "-" will be deleted for wax impregnated case.

REQUIREMENTS

Design and construction:

Dimensions and configuration - See figure 1.

Case type - Disk, wax impregnated or epoxy coated (E).

Capacitance value - See table I.

Capacitance tolerance -  $\pm 10$  percent (K) or  $\pm 20$  percent (M) as shown in table I.

Rated temperature -  $-55^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$  (A) or  $-55^{\circ}$  to  $+125^{\circ}\text{C}$  (B) as shown in table I.

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

Dielectric:

Test voltage - 250 percent of rated voltage for voltage-temperature limits W and X, or 200 percent of rated voltage for voltage-temperature limit Y.

Body insulation:

Test potential - 1,300 volts dc.

Barometric pressure (reduced): In accordance with MIL-C-11015 and method 105 of MIL-STD-202; condition B (50,000 ft) for voltage-temperature limit AY, or 0.82 inch of mercury (80,000 ft) for voltage-temperature limits AW and BX.

Test potential - 150 percent of rated voltage or 1,550 volts dc, whichever is less.

Insulation resistance (IR): In accordance with MIL-C-11015 and method 302 of MIL-STD-202, condition B. 200,000 megohms, minimum.

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Dissipation factor (DF): 1.5 percent, maximum (voltage-temperature limit BX) or 2.0 percent, maximum (voltage-temperature limits AW and AY).

Vibration, high frequency: In accordance with MIL-C-11015 and method 204 of MIL-STD-202, condition D (20 g's).

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

DWV - 250 percent of rated voltage for voltage-temperature limits W and X, or 200 percent of rated voltage for voltage-temperature limit Y.

IR - 150,000 megohms, minimum.

Salt spray (corrosion): Not applicable.

Terminal strength: In accordance with MIL-C-11015.

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

DWV - 250 percent of rated voltage for voltage-temperature limits W and X, or 200 percent of rated voltage for voltage-temperature limit Y.

IR - 150,000 megohms, minimum.

Cap. - Within tolerance of table I value.

Solderability: In accordance with MIL-C-11015. 2 terminals.

Resistance to soldering heat: In accordance with MIL-C-11015.

IR - 200,000 megohms, minimum.

$\Delta$ Cap. -  $\pm 5$  percent of initial measurement.

$\Delta$ DF - 0.5 percent, maximum.

Voltage-temperature limits: In accordance with MIL-C-11015.

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

Test potential - 200 percent of rated voltage.

DWV - 250 percent of rated voltage for voltage-temperature limits AW and BX, or 200 percent of rated voltage for voltage-temperature limit AY (at 25°C).

IR - 100,000 megohms, minimum (at high temperature and 25°C).

Cap. - Within tolerance of table I value (at 25°C).

DF - 1.5 percent, maximum (voltage-temperature limit BX) or 2.0 percent, maximum (voltage-temperature limits AW and AY) (at 25°C).

Marking: In accordance with MIL-C-11015.

Changes from previous issue: Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extent of the changes.

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Custodians:

Army - CR  
Navy - EC  
Air Force - 11  
DLA - CC

Review activities:

Army - MI  
Navy - AS, OS, SH  
Air Force - 19

Preparing activity:

DLA - CC

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