

INCH-POUND

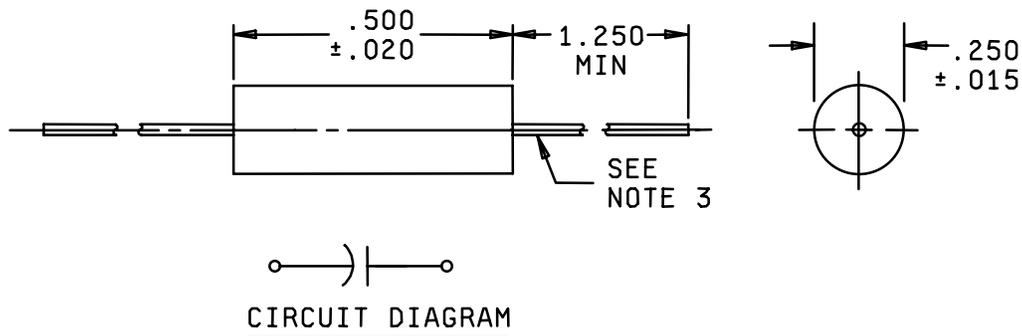
MIL-PRF-20/30C  
21 June 2001  
SUPERSEDING  
MIL-PRF-20/30B  
9 May 1989

PERFORMANCE SPECIFICATION SHEET

CAPACITORS, FIXED, CERAMIC DIELECTRIC  
(TEMPERATURE COMPENSATING),  
ESTABLISHED AND NON-ESTABLISHED RELIABILITY,  
STYLES CCR78 AND CC78

This specification 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 and the latest issue of MIL-PRF-20.



NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Lead diameter shall be .015 (0.38 mm) to .027 (0.69 mm).
4. Lead length may be a minimum of 1.00 inch (25.4 mm) long for use in tape and reel packaging, when specified in the ordering data.

Inches	mm
.015	0.38
.020	0.51
.027	0.69
.250	6.35
.500	12.70
1.250	31.75

FIGURE 1. Styles CCR78 and CC78 capacitors.

REQUIREMENTS:

Dimensions and configuration: See figure 1.

Lead type: Axial.

Case type: Tubular, molded.

DC rated voltage: See table I.

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Operating temperature range: -55°C to +125°C.

Characteristic: CG.

TABLE I. Capacitor characteristics.

Type designation 1/	Rated voltage (volts, dc)	Nominal capacitance (pF)	Capacitance tolerance	Type designation 1/	Rated voltage (volts, dc)	Nominal capacitance (pF)	Capacitance tolerance
CC-78CG821--	200	820	FGJK	CC-78CG562--	100	5,600	FGJK
CC-78CG102--	200	1,000	FGJK	CC-78CG682--	100	6,800	FGJK
CC-78CG122--	200	1,200	FGJK	CC-78CG822--	100	8,200	FGJK
CC-78CG152--	200	1,500	FGJK	CC-78CG103--	100	10,000	FGJK
CC-78CG182--	200	1,800	FGJK	CC-78CG123--	100	12,000	FGJK
CC-78CG222--	200	2,200	FGJK	CC-78CG153--	50	15,000	FGJK
CC-78CG272--	200	2,700	FGJK	CC-78CG183--	50	18,000	FGJK
CC-78CG332--	200	3,300	FGJK	CC-78CG223--	50	22,000	FGJK
CC-78CG392--	100	3,900	FGJK	CC-78CG273--	50	27,000	FGJK
CC-78CG472--	100	4,700	FGJK				

1/ Complete type designation will include the following:

1st dash - Symbol "R" (for style CCR78) or dash will be deleted (for style CC78).

2nd dash - Applicable capacitance tolerance symbol.

3rd dash - Applicable failure rate level symbol (CCR78 only) or dash will be deleted (for style CC78).

Failure rate level (CCR78 only): M (1.0 percent), P (0.1 percent), R (.01 percent) or S (.001 percent).

Thermal shock and voltage conditioning (CCR78 only): In accordance with MIL-PRF-20.

Capacitance: Within tolerance specified (see table I).

Dissipation factor: In accordance with MIL-PRF-20.

Dielectric withstanding voltage: In accordance with MIL-PRF-20.

Body insulation: Test II.

Solderability: In accordance with MIL-PRF-20.

Resistance to soldering heat: In accordance with MIL-PRF-20.

Life: In accordance with MIL-PRF-20, operating condition 2.

Marking: In accordance with MIL-PRF-20, method I.

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

Preparing activity:  
 DLA - CC  
 (Project 5910-2116-04)

Review activities:  
 Navy - AS, MC, OS, SH