

INCH-POUND

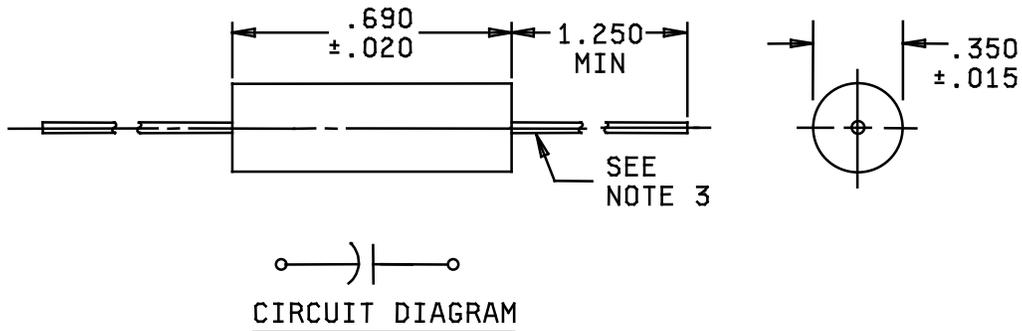
MIL-PRF-20/31C
21 April 2011
SUPERSEDING
MIL-PRF-20/31B
21 June 2001

PERFORMANCE SPECIFICATION SHEET
CAPACITORS, FIXED, CERAMIC DIELECTRIC
(TEMPERATURE COMPENSATING),
ESTABLISHED AND NON-ESTABLISHED RELIABILITY,
STYLES CCR79 AND CC79

CC79 is inactive for new design after
21 April 2011. Use CCR79.

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 sheet and [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
.350	8.89
.690	17.53
1.250	31.75

FIGURE 1. Styles CCR79 and CC79 capacitors.

REQUIREMENTS:

Dimensions and configuration: See figure 1.

Lead type: Axial.

Case type: Tubular, molded.

DC rated voltage: See table I.

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

Characteristic: CG.

TABLE I. Capacitor characteristics.

PIN 1/	Rated voltage (volts, dc)	Nominal capacitance (pF)	Capacitance tolerance	PIN 1/	Rated voltage (volts, dc)	Nominal capacitance (pF)	Capacitance tolerance
CC-79CG392--	200	3,900	FGJK	CC-79CG223--	100	22,000	FGJK
CC-79CG472--	200	4,700	FGJK	CC-79CG273--	100	27,000	FGJK
CC-79CG562--	200	5,600	FGJK	CC-79CG333--	100	33,000	FGJK
CC-79CG682--	200	6,800	FGJK	CC-79CG393--	100	39,000	FGJK
CC-79CG822--	200	8,200	FGJK	CC-79CG473--	50	47,000	FGJK
CC-79CG103--	200	10,000	FGJK	CC-79CG563--	50	56,000	FGJK
CC-79CG153--	100	15,000	FGJK	CC-79CG683--	50	68,000	FGJK
CC-79CG183--	100	18,000	FGJK	CC-79CG823--	50	82,000	FGJK

1/ Complete PIN will include the following:

1st dash - Symbol "R" (for style CCR79) or dash will be deleted (for style CC79).

2nd dash - Applicable capacitance tolerance symbol.

3rd dash - Applicable failure rate level symbol (CCR79 only) or dash will be deleted (for style CC79).

Failure rate level (CCR79 only): M (1.0 percent), P (0.1 percent), R (0.01 percent) or S (0.001 percent).

Thermal shock and voltage conditioning (CCR79 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.

Part or Identifying Number (PIN): In accordance with [MIL-PRF-20](#) and table I.

Marking: In accordance with [MIL-PRF-20](#).

Changes from previous issue: The margins of this specification sheet 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.

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

Preparing activity:
DLA - CC

(Project 5910-2011-015)

Review activities:
Navy - AS, MC, OS, SH
Air Force - 99

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>.