

INCH-POUND

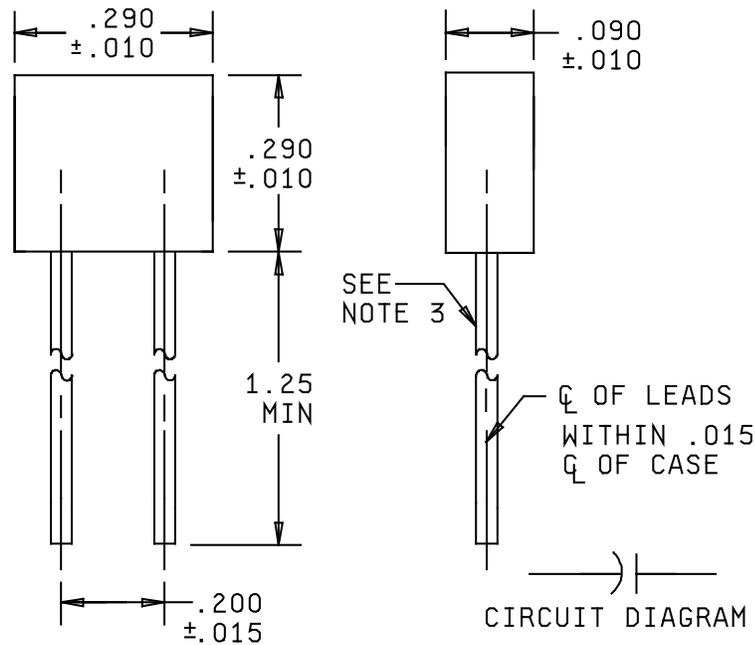
MIL-PRF-20/36G
21 April 2011
SUPERSEDING
MIL-PRF-20/36F
21 June 2001

PERFORMANCE SPECIFICATION SHEET
CAPACITORS, FIXED, CERAMIC DIELECTRIC
(TEMPERATURE COMPENSATING),
ESTABLISHED AND NON-ESTABLISHED RELIABILITY,
STYLES CCR06 AND CC06

Style CC06 is inactive for new design
after 19 September 1983. Use CCR06.

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](#).



CONFIGURATION WITHOUT STANDOFFS

FIGURE 1. Styles CCR06 and CC06 capacitors.

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REQUIREMENTS:

Dimensions and configuration: see figure 1.

Lead type: Radial.

Case type: Molded.

DC rated voltage: See table I.

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

Characteristic: CG.

Failure rate level (CCR06 only): M (1.0 percent), P (0.1 percent), R (.01 percent) or S (.001 percent).

Thermal shock and voltage conditioning (CCR06 only): In accordance with MIL-PRF-20.

Capacitance: Within tolerance specified (see table I).

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

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-06CG361---	200	360	FGJ	CC-06CG242---	100	2,400	FGJ
CC-06CG391---	200	390	FGJ	CC-06CG272---	100	2,700	FGJ
CC-06CG431---	200	430	FGJ	CC-06CG302---	100	3,000	FGJ
CC-06CG471---	200	470	FGJ	CC-06CG332---	100	3,300	FGJ
CC-06CG511---	200	510	FGJ	CC-06CG362---	100	3,600	FGJ
CC-06CG561---	200	560	FGJ	CC-06CG392---	100	3,900	FGJ
CC-06CG621---	200	620	FGJ	CC-06CG432---	100	4,300	FGJ
CC-06CG681---	200	680	FGJ	CC-06CG472---	100	4,700	FGJ
CC-06CG751---	200	750	FGJ	CC-06CG512---	50	5,100	FGJK
CC-06CG821---	200	820	FGJ	CC-06CG562---	50	5,600	FGJK
CC-06CG911---	200	910	FGJ	CC-06CG622---	50	6,200	FGJK
CC-06CG102---	200	1,000	FGJ	CC-06CG682---	50	6,800	FGJK
CC-06CG112---	200	1,100	FGJ	CC-06CG752---	50	7,500	FGJK
CC-06CG122---	200	1,200	FGJ	CC-06CG822---	50	8,200	FGJK
CC-06CG132---	200	1,300	FGJ	CC-06CG912---	50	9,100	FGJK
CC-06CG152---	200	1,500	FGJ	CC-06CG103---	50	10,000	FGJK
CC-06CG162---	200	1,600	FGJ	CC-06CG123---	50	12,000	FGJK
CC-06CG182---	200	1,800	FGJ	CC-06CG153---	50	15,000	FGJK
CC-06CG202---	100	2,000	FGJ	CC-06CG183---	50	18,000	FGJK
CC-06CG222---	100	2,200	FGJ				

1/ Complete PIN will include the following:

1st dash - Symbol "R" (for style CCR06) or dash will be deleted (for style CC06).

2nd dash - Applicable capacitance tolerance symbol.

3rd dash - Applicable failure rate level symbol (CCR06 only) or dash will be deleted (for style CC06).

4th dash - Symbol "V" for standoffs CCR06 only) or dash will be deleted (for style CCR06 without standoffs and style CC06).

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Dielectric withstanding voltage: In accordance with [MIL-PRF-20](#).

Body insulation: Test II.

Solderability: The leads shall be solderable up to .020 inch (0.51 mm) from the body egress.

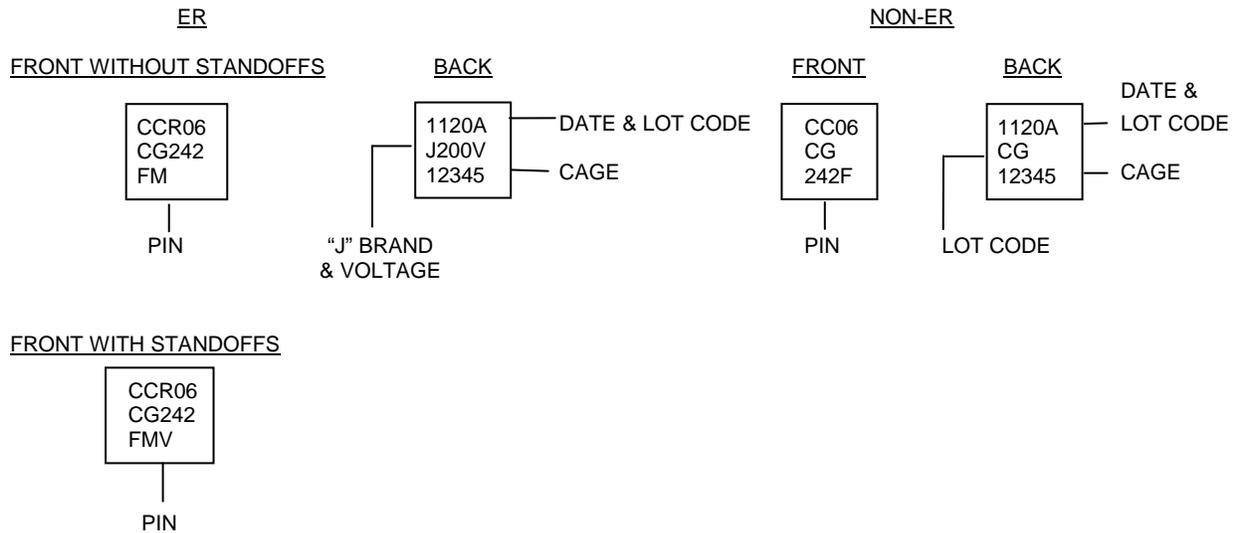
Resistance to soldering heat: In accordance with [MIL-PRF-20](#).

Workmanship: For style CCR06 with standoff, exposed copper or bare leads shall be permitted to a maximum of .020 inch (0.51 mm) from the body egress. For style CCR06 without standoffs and style CC06, workmanship shall be 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: Method I of [MIL-STD-1285](#). At the option of the manufacturer, the marking may be placed on one side of the capacitor, or the marking may be placed on two lines as long as it is in the same order as shown in the following examples:



Referenced documents. In addition to [MIL-PRF-20](#), this specification sheet references the following document:

[MIL-STD-1285](#)

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 5910-2011-017)

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

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