

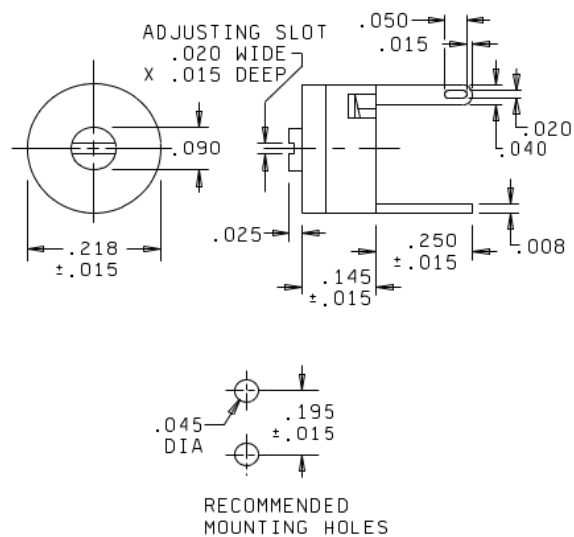
PERFORMANCE SPECIFICATION SHEET

CAPACITOR, VARIABLE, CERAMIC DIELECTRIC,

STYLES CV35 AND CV36

This specification sheet 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 sheet and [MIL-PRF-81](#).



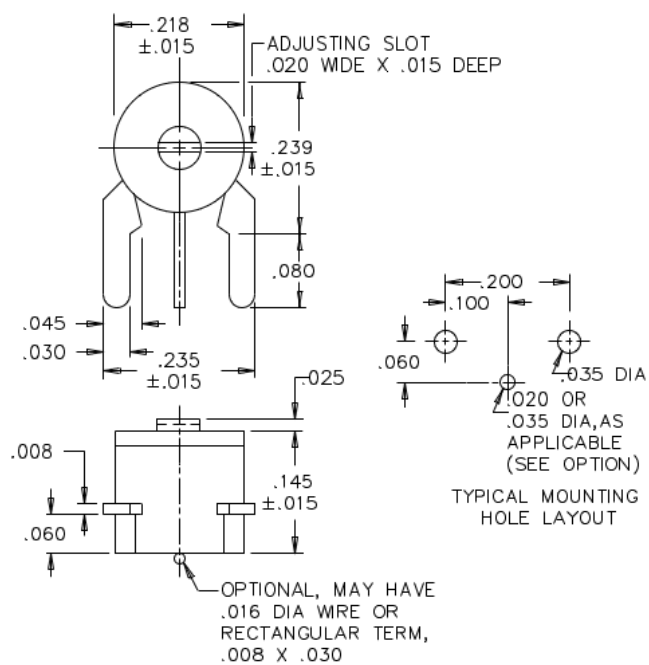
Inches	mm
.008	0.20
.015	0.38
.020	0.51
.025	0.64
.040	1.02
.065	1.65
.090	2.29
.145	3.68
.195	4.95
.218	5.54
.250	6.35

Style CV35

FIGURE 1. Dimensions and configurations.



MIL-PRF-81/6H



Inches	mm
.008	0.20
.015	0.38
.016	0.41
.020	0.51
.025	0.64
.030	0.76
.035	0.89
.045	1.14
.060	1.52
.080	2.03
.100	2.54
.145	3.68
.200	5.08
.218	5.54
.235	5.97
.239	6.07

Style CV36

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are in millimeters and are given for general information only.
3. Unless otherwise specified, tolerance is $\pm .005$ inch.

FIGURE 1. Dimensions and configurations - continued.

REQUIREMENTS:

Dimensions and configuration: See [figure 1](#).

Capacitance value: See [table I](#).

DC rated voltage: See [table I](#).

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

Characteristics: See [table I](#).

Dielectric withstanding voltage (DWV): In accordance with [MIL-PRF-81](#), terminal to terminal, except the magnitude of the test voltage shall be a dc potential of 200 V_{dc}.

TABLE I. [Styles CV35 and CV36](#).

Part or Identifying Number (PIN) <u>1/</u>	Capacitance (pF)		DC rated voltage (volts)	Symbol	Characteristic					
					Capacitance change from value at +25°C					
	Min.	Max.			At -55°C		At +85°C		At +125°C	
					Min. (percent)	Max. (percent)	Min. (percent)	Max. (percent)	Min. (percent)	Max. (percent)
CV35A030	1.0	3.0	100	A	-4.5	+2.0	-2.5	+2.0	-4.2	+3.4
CV36A030	1.25	3.0	100	A	-4.5	+2.0	-2.5	+2.0	-4.2	+3.4
CV3 - A050 <u>2/</u>	2.0	5.0	100	A	-4.5	+2.0	-2.5	+2.0	-4.2	+3.4
CV3 - A090	2.5	9.0	100	A	-4.5	+2.0	-2.5	+2.0	-4.2	+3.4
CV3 - A200	3.5	20.0	100	A	-4.5	+2.0	-2.5	+2.0	-4.2	+3.4
CV3 - A150 <u>2/</u>	5.0	15.0	100	A	-4.5	+2.0	-2.5	+2.0	-4.2	+3.4
CV3 - A250	5.0	25.0	100	A	-4.5	+2.0	-2.5	+2.0	-4.2	+3.4
CV3 - C400	7.0	40.0	100	C	-1.0	+6.5	-4.0	-1.0	-6.7	-1.7
CV3 - G400	7.0	40.0	25	G	-0.0	+14.0	-8.0	-3.0	-14.0	-5.0

1/ The complete PIN will include an additional character to indicate CV35 or CV36 (where applicable).

2/ Characteristic F is canceled without replacement.

Dissipation factor (DF):

Characteristic C and G: Shall be not more than 0.5 percent.

Torque: Not less than 0.3 ounce-inch nor more than 3 ounce-inches.

Vibration, high frequency:

DF: Shall be not more than 0.5 percent for characteristics C and G.

DWV:

Magnitude of test voltage: 200 volts dc.

Fatigue:

Torque: Not less than .3 ounce-inches, nor more than 3 ounce-inches.

Moisture resistance:

DF: Shall not be more than 0.5 percent for characteristic A and 1.25 percent for characteristics C and G.

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 previous issue.

Custodians:
Air Force - 85
DLA - CC

Preparing activity:
DLA - CC

(Project 5910-2025-030)

Review activity:
Air Force – 19

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