INCH-POUND

MIL-C-11272/13C
4 February 2008
SUPERSEDING
MIL-C-11272/13B
7 February 2003

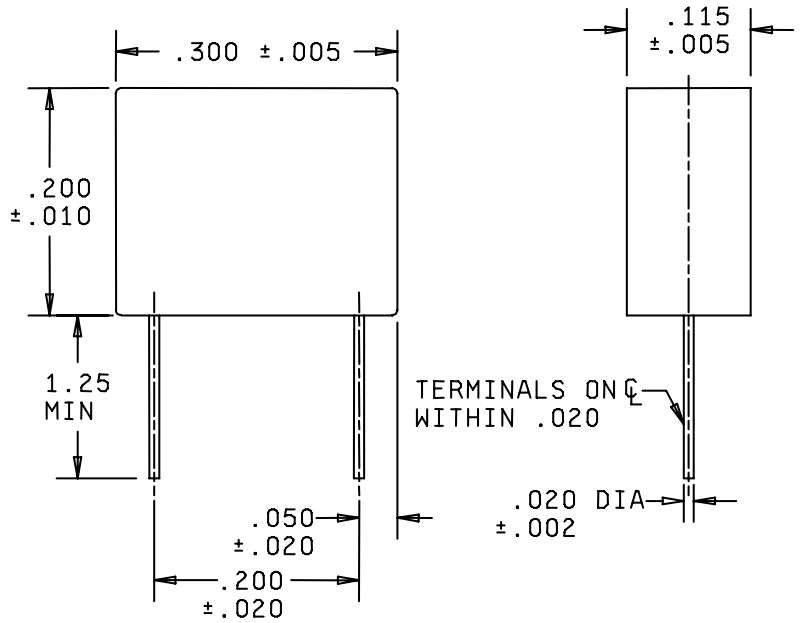
MILITARY SPECIFICATION SHEET

CAPACITORS, FIXED, GLASS DIELECTRIC
STYLE CY06

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 sheet and MIL-C-11272.

* INACTIVE FOR DESIGN AFTER 7 JAN 1970.
USE MIL-PRF-23269/10, Style CYR51.



Inches	mm
.002	0.05
.005	0.13
.010	0.25
.020	0.51
.050	1.27
.115	2.92
.200	5.08
.300	7.62
1.25	31.75

NOTES:
1. Dimensions are in inches.
2. Metric equivalents are given for general information only.

FIGURE 1. Style CY06 capacitors

AMSC N/A

FSC 5910

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REQUIREMENTS

Requirements: Requirements shall be in accordance with MIL-C-11272, and as specified herein.

* Dimensions and configuration: See figure 1.

Dielectric: Glass.

Case: Epoxy.

* Terminals: Solderable

Capacitance: See table I.

Capacitance tolerance: C = ± 0.25pF; D = ± 0.50pF; F = ±1%; G = ±2%; J = ±5%.

DC rated voltage: 300 volts.

Dissipation factor:

Not to exceed 0.002 for capacitance values of 1 to 100 pF.
Not to exceed 0.001 for capacitance values greater than 100 pF.

* Quality factor (Q): In accordance with MIL-C-11272 and the following:

Not less than 500 for capacitance values of 1 to 100 pF.
Not less than 2,000 for capacitance values greater than 100 pF.

* Immersion: In accordance with MIL-C-11272 and the following:

Dissipation factor: Not to exceed 0.002 for capacitance values of 1 to 100 pF.
Not to exceed 0.001 for capacitance values greater than 100 pF.

* Moisture resistance: In accordance with MIL-C-11272 and the following:

Dissipation factor: Not to exceed 0.003 for capacitance values of 100 pF or less;
Not to exceed 0.001 for capacitance values greater than 100 pF.

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TABLE I. Style CY06.

PIN 1/	Capacitance	DC rated voltage	Capacitance tolerances available	PIN 1/	Capacitance	DC rated voltage	Capacitance tolerances available
	pF	volts			pF	volts	
CY06C1R0C	1.0	300	C	CY06C360-	36	300	FGJ
CY06C1R5C	1.5	300	C	CY06C390-	39	300	FGJ
CY06C2R2-	2.2	300	CD	CY06C430-	43	300	FGJ
CY06C2R7C	2.7	300	C	CY06C470-	47	300	FGJ
CY06C3R0-	3.0	300	CD	CY06C510-	51	300	FGJ
CY06C3R3C	3.3	300	C	CY06C560-	56	300	FGJ
CY06C3R6-	3.6	300	CD	CY06C620-	62	300	FGJ
CY06C3R9C	3.9	300	C	CY06C680-	68	300	FGJ
CY06C4R3-	4.3	300	CD	CY06C750-	75	300	FGJ
CY06C4R7C	4.7	300	C	CY06C820-	82	300	FGJ
CY06C5R1-	5.1	300	CJ	CY06C910-	91	300	FGJ
CY06C5R6-	5.6	300	CJ	CY06C101-	100	300	FGJ
CY06C6R2-	6.2	300	CJ	CY06C111-	110	300	FGJ
CY06C6R8-	6.8	300	CJ	CY06C121-	120	300	FGJ
CY06C7R5-	7.5	300	CJ	CY06C131-	130	300	FGJ
CY06C8R2-	8.2	300	CJ	CY06C151-	150	300	FGJ
CY06C9R1-	9.1	300	CJ	CY06C161-	160	300	FGJ
CY06C100-	10	300	CJ	CY06C181-	180	300	FGJ
CY06C110-	11	300	CJ	CY06C201-	200	300	FGJ
CY06C120-	12	300	CJ	CY06C221-	220	300	FGJ
CY06C130-	13	300	CGJ	CY06C241-	240	300	FGJ
CY06C150-	15	300	CGJ	CY06C271-	270	300	FGJ
CY06C160-	16	300	CGJ	CY06C301-	300	300	FGJ
CY06C180-	18	300	CGJ	CY06C331-	330	300	FGJ
CY06C200-	20	300	CGJ	CY06C361-	360	300	FGJ
CY06C220-	22	300	CGJ	CY06C391-	390	300	FGJ
CY06C240-	24	300	CGJ	CY06C431-	430	300	FGJ
CY06C270-	27	300	FGJ	CY06C471-	470	300	FGJ
CY06C300-	30	300	FGJ	CY06C511-	510	300	FGJ
CY06C330-	33	300	FGJ	CY06C561-	560	300	FGJ

1/ Complete PIN will include an additional letter symbol to indicate capacitance tolerance, where applicable.

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* Life: In accordance with MIL-C-11272 and the following:

For qualification and group B continuation tests:

At 25°C:

Insulation resistance: Not less than 100,000 megohms.

Capacitance: Change not more than 0.5 percent of nominal value or 0.5 pF whichever is greater, from initial 25°C value.

Dissipation factor: Not to exceed 0.0045 for values of 100 pF, or less;
Not to exceed 0.0025 for values greater than 100 pF

At 125°C:

Insulation resistance: Not less than 10,000 megohms.

Capacitance: Change not more than 0.5 percent of nominal value or 0.5 pF whichever is greater, from initial 125°C value.

Dissipation factor: Not to exceed 0.009 for values of 100 pF, or less;
Not to exceed 0.007 for values greater than 100 pF.

For performance check:

Insulation resistance: Not less than 100,000 megohms.

Capacitance: Change not more than 0.5 percent of nominal value or 0.5 pF whichever is greater, from initial 25°C value.

Dissipation factor: Not to exceed 0.0045 for values of 100 pF or less;
Not to exceed 0.0025 for values greater than 100 pF.

Temperature coefficient and capacitance drift: The temperature coefficient and capacitance drift shall be within the limits specified in table II.

TABLE II. Temperature coefficient and capacitance drift.

Temperature coefficient	Capacitance drift (-55° to +125°C)
parts/million/°C 140 ±25	0.1 percent or 0.1 pF, whichever is greater.

* Referenced documents. In addition to MIL-C-11272, this document also references the following:

MIL-PRF-23269/10

* Changes from previous issue. The margins of this specification sheet are marked with asterisks 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.

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Review activity:
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