

INCH-POUND

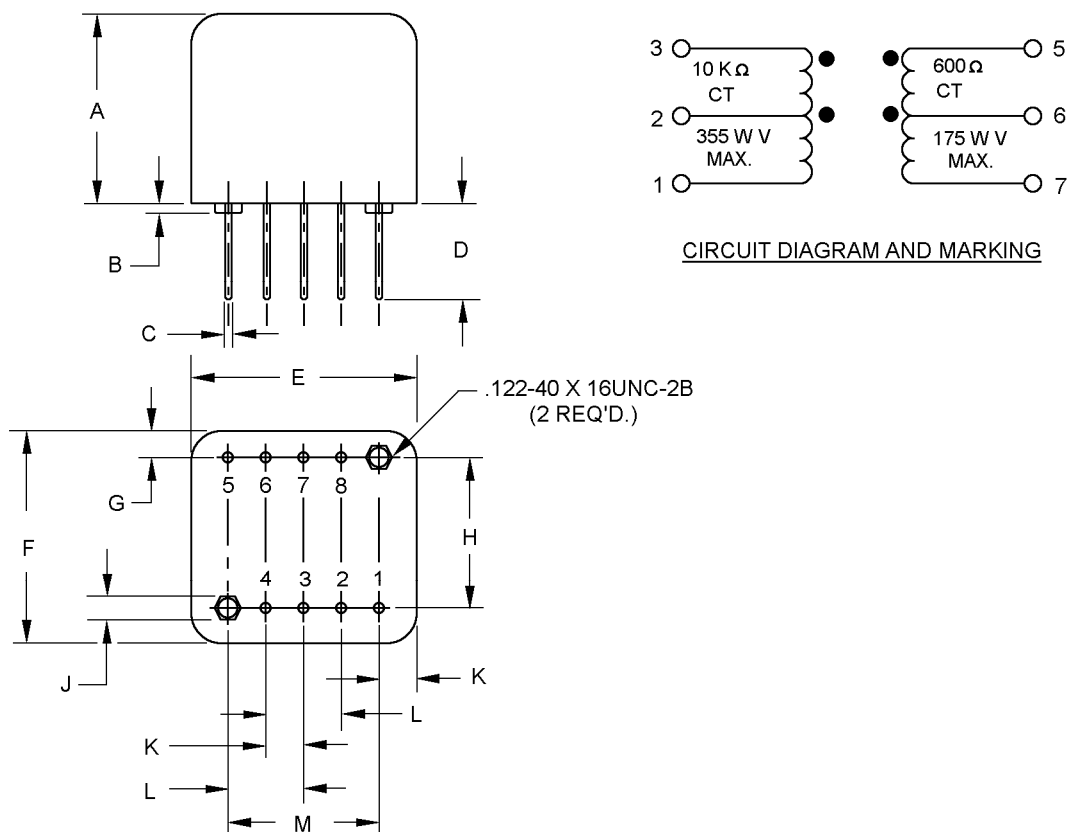
MIL-PRF-27/79A
AMENDMENT 1
26 May 2016
SUPERSEDING
MIL-PRF-27/79A
9 November 2009

PERFORMANCE SPECIFICATION SHEET

TRANSFORMERS, AUDIO FREQUENCY

This specification is approved for use by all Departments and Agencies of the Department of Defense.

The requirements for acquiring the products described herein shall consist of this specification and MIL-PRF-27.



NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Marking shall be on top of the case.

FIGURE 1. Dimensions and configuration

AMSC N/A

FSC 5950



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Ltr	Dimensions	
	Inches	mm
A	1.000 MAX	25.40 MAX
B	.046	1.17
C	.030 DIA	.762 DIA
D	.500 $\pm$.031	12.70 $\pm$ 0.79
E	1.085 MAX	27.56 MAX
F	1.125 MAX	28.58 MAX
G	.142 $\pm$.020	3.6068 $\pm$.51
H	.800 $\pm$.010	20.32 $\pm$.25
J	.187 $\pm$.020	4.7498 $\pm$.51
K	.200 $\pm$.010	5.08 $\pm$.25
L	.400 $\pm$.010	10.16 $\pm$.25
M	.800 $\pm$.010	20.32 $\pm$.25

FIGURE 1. Dimensions and configuration – continued.

REQUIREMENTS: (When numbers in parentheses, such as (1-3) are used, they indicate the winding and the extreme terminals of the winding.)

Electrical ratings: See table I.

Source impedance (1-3): 10k ohms ct $\pm$ 10 percent.

Load impedance (5-7): 600 ohms ct.

Primary power level: 6 watts maximum (200 Hz to 10KHz)
25 watts (60 Hz to 200 Hz)

Working voltage:

(1-3): 355 volts maximum.

(5-7): 175 volts maximum.

Design and construction:

Dimensions and configuration: See figure 1.

Duty cycle: Continuous.

Case: Encapsulated.

Material: Epoxy glass.

Terminals: Pin type, Dumet, hot tin dipped.

Weight: 2.5 ounces, maximum.

Operating temperature range: -55°C to +130°C.

Terminal strength: MIL-STD-202-211, test condition A, 2 pounds.

Dielectric withstanding voltage (at sea level): 1,000 volts rms (1-3) and 500 volts rms (5-7)..

Electrical characteristics: See table II.

Harmonic distortion: No more than $\pm$ 10 percent at 6 watts, 200 Hz to 10 kHz across (5-7).

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Primary impedance (1-3): 10k ohms ct ± 10 percent at 1 kHz.

Secondary load impedance (5-7): 600 ohms ct.

Frequency response: 60 Hz to 10 kHz ± 1 dB maximum.

DC resistance:

Primary (1-3): 700 ohms ± 25 percent.

Secondary (5-7): 50 ohms ± 25 percent.

No load (center tap (ct) voltage unbalance only):

With 50 volts, 60 Hz and 0 amp voltage unbalance dc applied to (1-3)

Unbalance (1-2) and (2-3): ± 1 percent maximum.

Unbalance (5-6) and (6-7): ± 1 percent maximum.

Polarity: Additive, with terminals 3 and 5 connected.

Temperature rise: 45°C.

Vibration, high frequency: MIL-STD-202-204, test condition B.

Shock (specified pulse): MIL-STD-202-213, test condition H.

Marking location: See figure 1.

Part or Identifying Number (PIN): M27/79-01

Amendment notations. The margins of this specification are marked with vertical lines to indicate modifications generated by this amendment. 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.

Referenced documents. In addition to MIL-PRF-27, this document references the following:

MIL-STD-202-204, MIL-STD-202-211, MIL-STD-202-213

Custodians:

Army - CR

Navy - EC

Air Force - 85

DLA - CC

Preparing activity:

DLA – CC

(Project 5950-2016-020)

Review activities:

Army - AR, CR4, MI

Navy - AS, MC, OS, SH

Air Force - 19, 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 this information above using the ASSIST Online database at <https://assist.dla.mil>.