

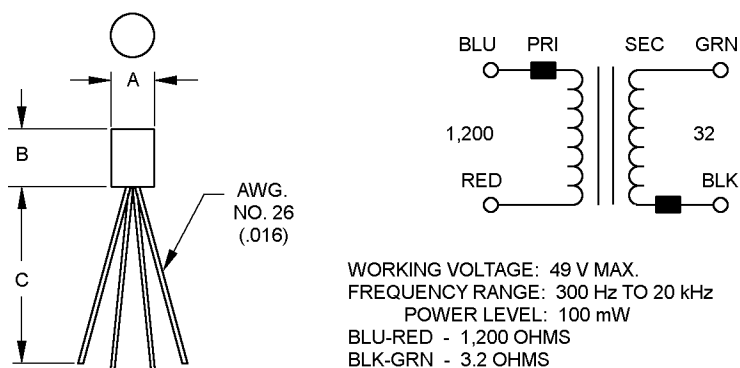
MIL-PRF-27/96A
 AMENDMENT 1
 26 May 2016
 SUPERSEDING
 MIL-PRF-27/96A
 29 September 2009

PERFORMANCE SPECIFICATION SHEET

TRANSFORMER, AUDIO FREQUENCY, SUB-MINIATURE

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

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



CIRCUIT DIAGRAM

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. The number of terminals shall be as shown in circuit diagram.
4. For vibration and shock test the specimen shall be rigidly mounted on a printed circuit board.

FIGURE 1. Dimensions and configurations



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Ltr	Dimensions	
	Inches	mm
A	.344 DIA MAX	8.74 DIA MAX
B	.469 MAX	11.91 MAX
C	1.500 ±.250	38.10 ±6.35

FIGURE 1. Dimensions and configuration – Continued.

REQUIREMENTS:

Electrical ratings:

Primary power level: 100 mW.

Working voltage: 49 volts, maximum.

Primary current: 2 mA dc.

Primary impedance: (BLU-RED) 1,200 ohms.

Secondary load impedance: (BLK-GRN) 3.2 ohms.

Design and construction:

Dimensions and configuration: See figure 1.

Duty cycle: Continuous.

Terminals: Solder wire, insulated.

Material: Insulated type D, in accordance with MIL-STD-1276.

Diameter: .016 inch (0.41 mm).

Length: 1.500 ±.250 inch (38.1 ± 6.35 mm).

Weight: 3.5 grams.

Altitude: 70,000 feet, maximum.

Operating temperature range: -55°C to +105°C.

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

Dielectric withstanding voltage:

At sea level): 100 volts rms.

At reduced barometric pressure: 100 volts rms.

Electrical characteristics:

Primary impedance: (BLU-RED) 1200 ohms with approximately 11 volts, 1 kHz and 2 mA dc applied to (BLU-RED) and 3.2 ohms across (BLK-GRN).

Harmonic distortion: Total harmonic content of output 5 percent with 11 volts, 1 kHz and 2 mA dc applied to (BLU-RED).

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Frequency response: $Z_S=1200$ ohms (BLU-RED), $Z_L=3.2$ ohms (BLK-GRN), $E_S=2.5$ volts, reference frequency = 1 kHz, frequency range = 300 Hz to 20 kHz ± 3 dB.

Polarity: Additive, with terminals RED and BLK connected.

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

Part or Identification Number (PIN): M27/96-01

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-1276

Custodians:

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

Preparing activity:
DLA - CC

(Project 5950-2016-021)

Review activities:

Army - AR, CR4, MI
Navy - AS, MC, OS, SH
Air Force - 19

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.dla.mil>.