

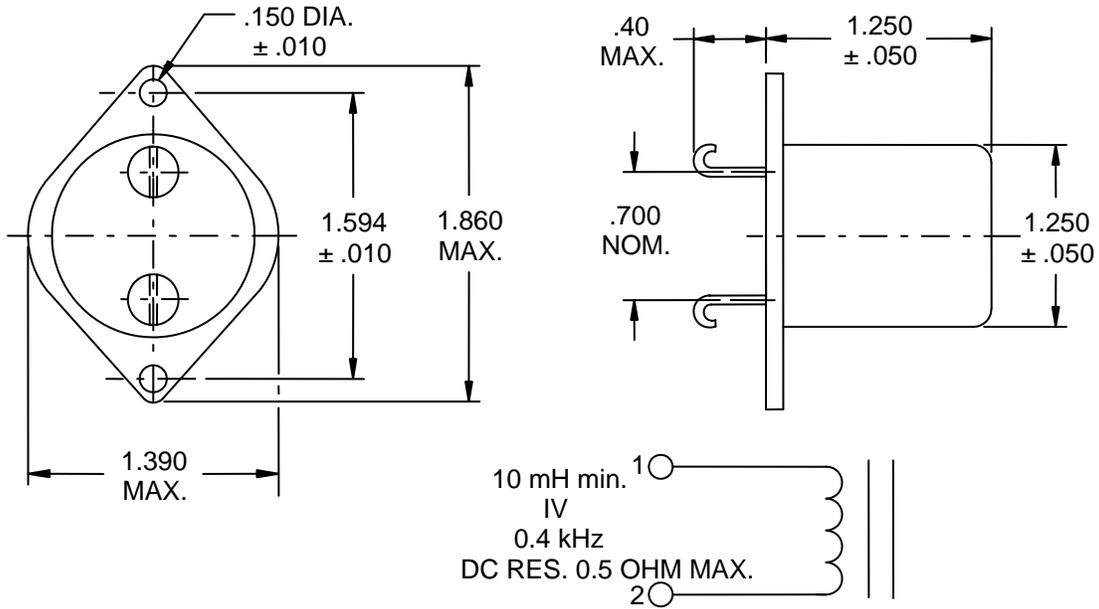
INCH-POUND
MIL-PRF-27/111A
29 September 2009
SUPERSEDING
MIL-PRF-27/111
30 July 1976

PERFORMANCE SPECIFICATION SHEET

TRANSFORMERS AND INDUCTORS,
(AUDIO, POWER AND HIGH-POWER PULSE)
INDUCTOR, AUDIO

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-PRF-27.



CIRCUIT DIAGRAM AND MARKING

| Inches | mm |
|--------|-------|
| .010 | 0.25 |
| .050 | 1.27 |
| .150 | 3.81 |
| .400 | 10.16 |
| .700 | 17.78 |
| 1.250 | 31.75 |
| 1.390 | 35.31 |
| 1.594 | 40.49 |
| 1.860 | 47.24 |

NOTES:

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

FIGURE 1. Dimensions and configuration.

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REQUIREMENTS: (When numbers in parentheses, such as (1-2) are used, they indicate the winding and the extreme terminals of the winding.)

Electrical ratings:

Inductance (1-2): 10 mH, minimum.

Voltage (1-2): 1 volt, 0.4 kHz.

Current (1-2): .050 ampere dc.

DC resistance (1-2): 0.5 ohm dc maximum.

Working voltage: 10 volts, maximum.

Power: 0.05 watt, maximum.

Design, configuration, and physical dimensions: See figure 1.

Duty cycle: Continuous.

Case: Metal.

Material: Epoxy filled.

Terminals: Brass, solder type, glass to metal compression seal.

Terminal length: 0.4 inch (10 mm), minimum.

Weight: 0.19 pound, maximum.

Operating temperature range: -55°C to +171°C.

Terminal strength: [MIL-STD-202](#), method 211, test condition A, 5 pounds.

Dielectric withstanding voltage: [MIL-STD-202](#), method 301.

At sea level: 50 volts rms.

At reduced barometric pressure: 50 volts rms.

Electrical characteristics:

Inductance: With 1 volt rms, 0.4 kHz across, and .050 ampere dc applied to (1-2), the inductance shall be 10 mH minimum.

Marking location: See figure 1.

Part or Identifying Number (PIN): M27/111-01.

Changes from previous issue. The margins of this specification 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.

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

[MIL-STD-202](#)

Custodians:

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

Preparing activity:

DLA - CC

(Project: 5950-2009-039)

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 <http://assist.daps.dla.mil>.