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MIL-PRF-27/112

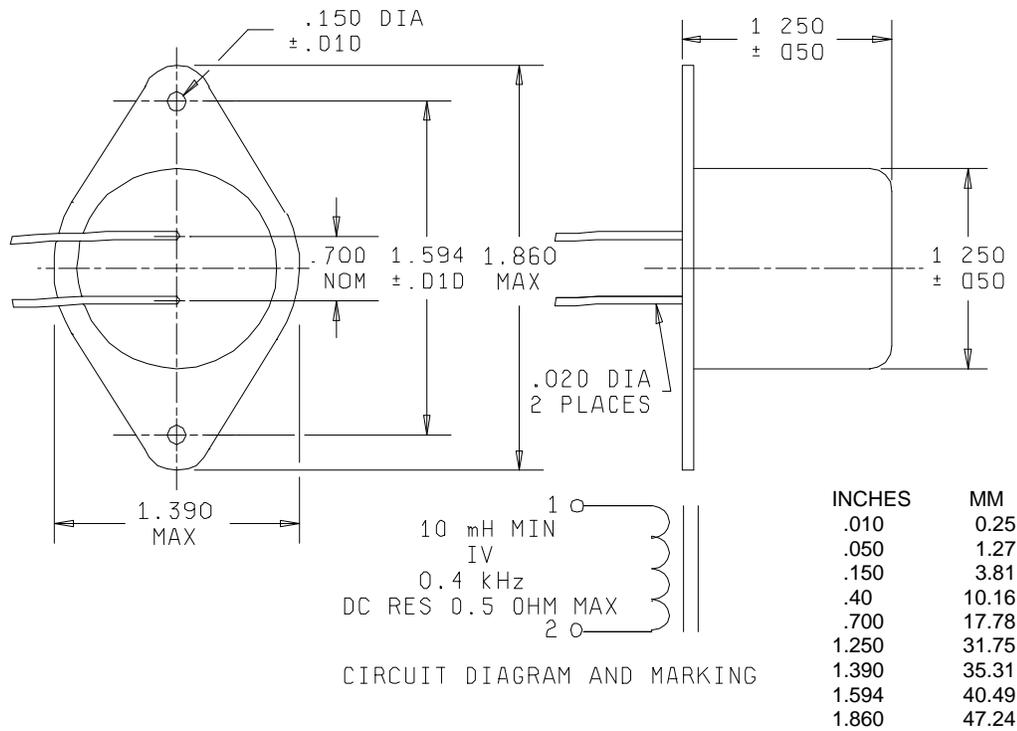
30 July 1976

PERFORMANCE SPECIFICATION SHEET

TRANSFORMERS AND INDUCTORS (AUDIO, POWER AND HIGH-POWER PULSE)  
INDUCTOR, AUDIO, TYPE TF5U20ZZ931

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

The complete requirements for procuring the inductor described herein shall consist of this document and the latest issue of Specification MIL-T-27.



NOTES:

1. Dimensions are in inches.
2. Metric equivalents (to the nearest .01 mm) are given for general information only and are based upon 1 inch = 25.4 mm.
3. Marking shall be on the side of the case.

FIGURE 1. Dimensions and configurations.

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REQUIREMENTS: (When numbers in parentheses, i.e., (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 and construction:

Dimensions and configuration: See figure 1.  
Duty cycle: Continuous.  
Weight: 0.17 pound.  
Case: Metal enclosed.  
Operating temperature range: -55° to 171°C.  
Terminals: Solid copper wire lead.  
Terminal length: 0.5 inch minimum.

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

Dielectric withstanding voltage: MIL-STD-202, method 301.

At sea level: 50 volts rms.  
At 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 number: M27/112-01.

Custodians:

Army - EL  
Navy - EC  
Air Force - 85

Preparing activity:

Army - EL

Agent:

DSA - ES

Review activities:

Army - EL, MI, SG  
Navy - EC, SH, OS  
Air Force - 11, 17, 80  
DSA - ES

(Project 5950-0519-2)

User activities:

Army - MU, WC, SG, ME  
Navy - MC, AS  
Air Force - 19