

MIL-T-27/149D  
9 November 2009  
SUPERSEDING  
MIL-T-27/149C  
16 August 1993

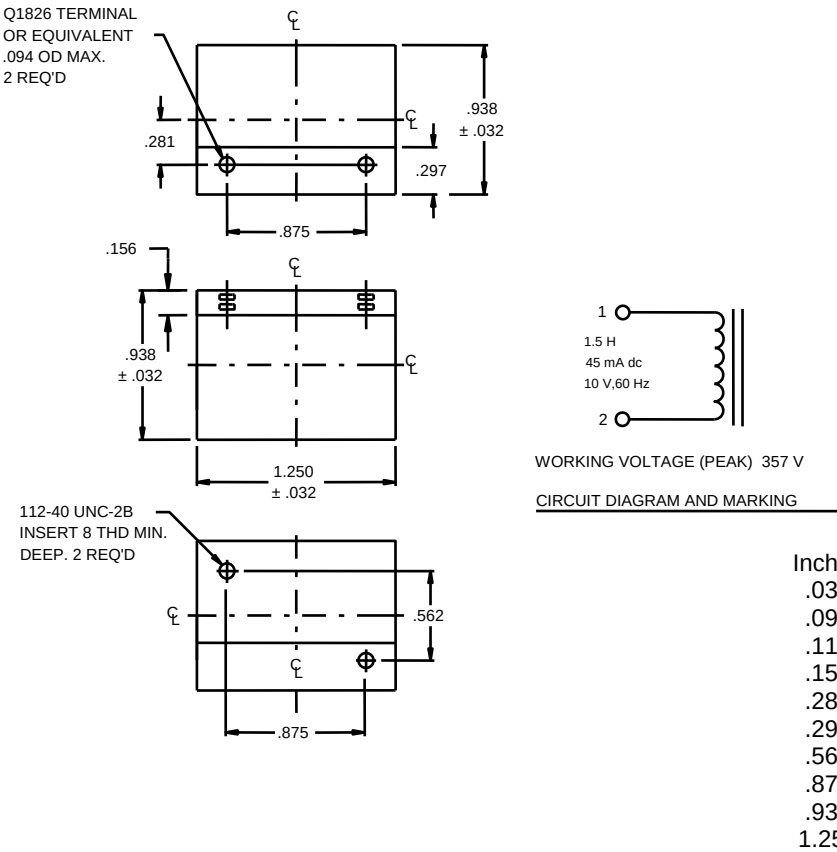
MILITARY SPECIFICATION SHEET

TRANSFORMER AND INDUCTORS  
(AUDIO, POWER AND HIGH-POWER PULSE),  
INDUCTORS, POWER

Inactive for new design  
after 25 August 1998

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.



- 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.
  - 4. Unless otherwise specified, tolerances on all dimensions shall be  $\pm 0.016$  inch (0.41 mm).

FIGURE 1. Dimensions and configurations.

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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: See table I.

Inductance (1-2): 1.5 H, minimum.

Voltage (1-2): 10 V, 60 Hz.

Current (1-2): 45 mA dc.

DC resistance (1-2): 225 ohms  $\pm$ 25 percent.

Working voltage (Peak): 357 volts.

Power: 456 mW, maximum.

Design and construction:

Dimensions and configuration: See figure 1.

Duty cycle: Continuous.

Case: Encapsulated.

Material: Epoxy.

Terminals: Solder terminal.

Height: .156 inch (3.96 mm), maximum.

Diameter: .094  $\pm$ .016 inch (2.39  $\pm$ 0.41 mm).

Weight: 0.12 pound, maximum.

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

Terminal strength: [MIL-STD-202](#), method 211, test condition A, 2.0 pounds and test condition D, 8 ounce-inches.

Vibration (high frequency): [MIL-STD-202](#), method 204.

Dielectric withstanding voltage (at sea level): 1,000 volts rms.

Electrical characteristics:

Inductance: With 10 volts, 60 Hz across (1-2), and 45 mA dc applied to (1-2) the inductance shall be 1.5 H minimum.

Temperature rise: 45°C, with 10 volts rms, 60 Hz, 45 mA dc applied to (1-2) at an ambient temperature of +85°C.

Marking location: See figure 1.

Part or Identification Number (PIN): M27/149-01.

Qualification inspection: Not applicable for this specification sheet.

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 5950-2009-012)

Review activities:

Army - AR, CR4  
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 the information above using the ASSIST Online database at <http://assist.daps.dla.mil>.