

INCH-POUND

MIL-T-27/174D
4 May 2012
SUPERSEDING
MIL-T-27/174C
20 April 1993

MILITARY SPECIFICATION SHEET

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

Inactive for new design after 20 April 1993.

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

The complete requirements for procuring the transformer described herein shall consist of this document and the latest issue of specification MIL-PRF-27.

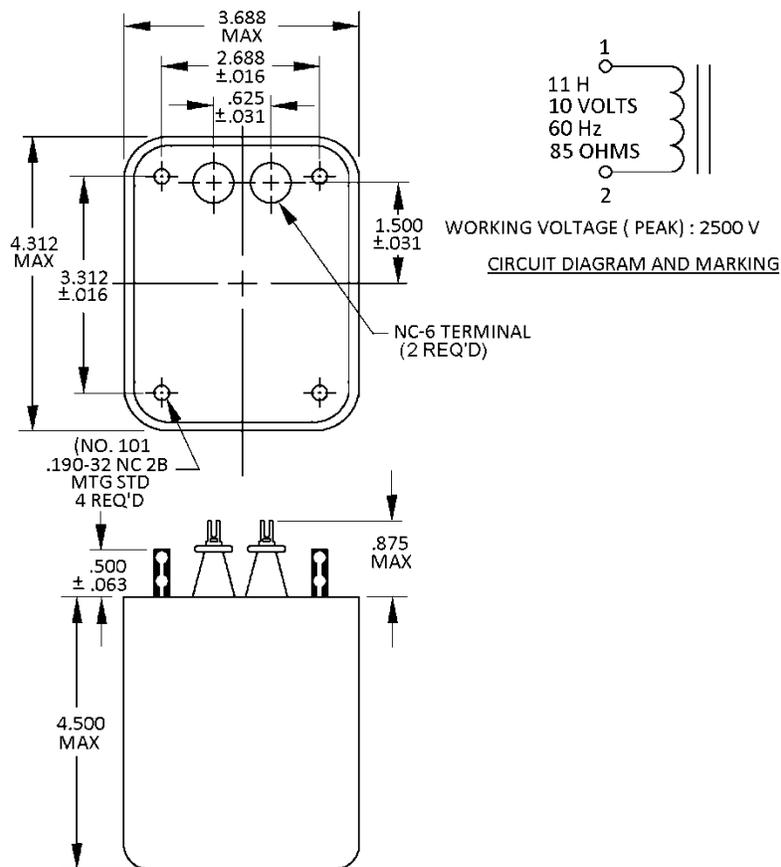


FIGURE 1. Dimensions and configurations.

Inches	mm
.016	0.41
.031	0.79
.063	1.60
.190	4.83
.500	12.70
.625	15.88
.875	22.22
1.500	38.10
2.688	68.28
3.312	84.12
3.688	93.68
4.312	109.52
4.500	114.30

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Marking shall be on the sides of the case.
4. Dash numbers -02 through -09 have been canceled without replacement.

FIGURE 1. Dimensions and configurations - continued.

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): 11 Henries (H), minimum.

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

Current (1-2): 0.2 ampere, dc.

DC resistance: 85 ohms, ± 25 percent.

Working voltage (peak): 2500 V

Design and construction:

Dimensions and configurations: See figure 1.

Duty cycle: Continuous.

Case: Metal enclosed.

Material: Steel.

Terminals: Solder lug type with ceramic insulator, NC-6 or equivalent.

Terminal height: .875 inch, maximum.

Weight: 12 pounds, maximum.

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

Dielectric withstanding voltage (at sea level): 4,500 V rms

Electrical characteristics:

Inductance: With 10 V rms, 60 Hz across (1-24), and 0.2 ampere dc applied to (1-2), the inductance shall be 11 H, minimum.

Temperature rise: 40°C with 10 V, 60 Hz applied to (1-2) at an ambient temperature of 90°C.

VERIFICATION:

Qualification inspection: Not applicable.

Conformance inspection: Groups A and B tests of MIL-PRF-27 shall be applicable.

Marking location: See figure 1.

Part or Identifying Number (PIN): M27/174-01.

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 no other documents.

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

Preparing activity:
DLA - CC

(Project 5950-2009-080)

Review Activities:
Army - AR, CR4
Navy - MC, YD
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.daps.dla.mil>.