

MIL-T-27/207B
4 May 2012
SUPERSEDING
MIL-T-27/207A
13 March 1991

MILITARY SPECIFICATION SHEET

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

Inactive for new design after 13 March 1991

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

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

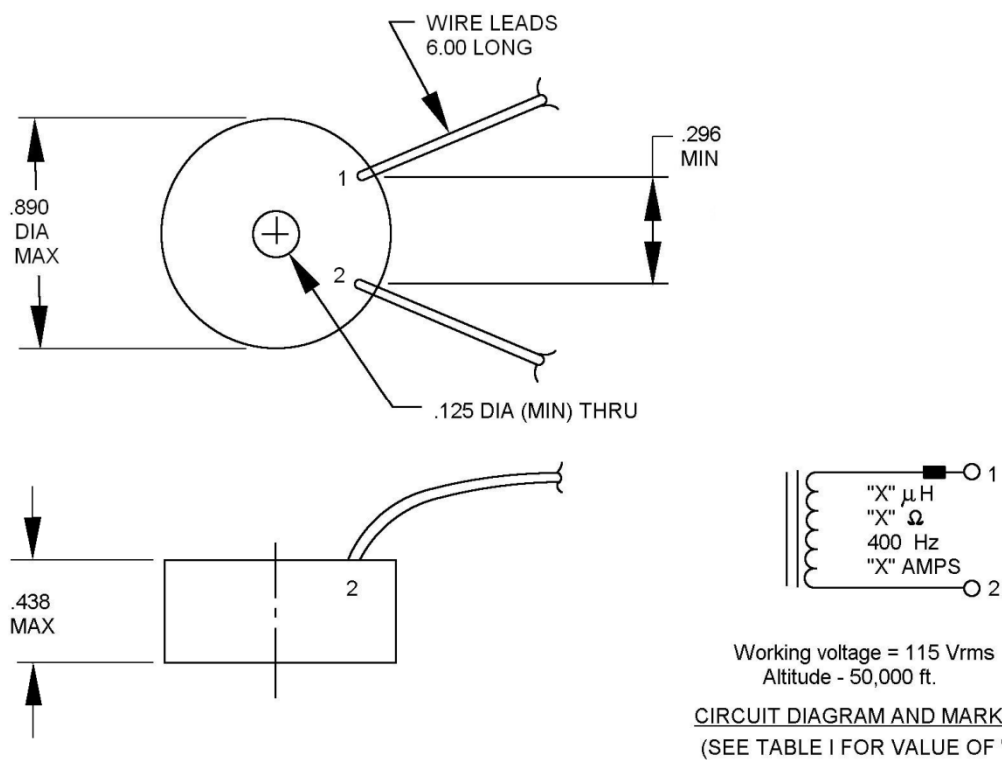


FIGURE 1. Dimensions and configurations

Inches	mm
.125	3.18
.296	7.52
.438	11.13
.890	22.61
6.00	152.4

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. Electrical values shall be marked as specified in table I, as applicable.

FIGURE 1. Dimensions and configurations - Continued

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.

Design and construction:

Dimensions and configuration: See figure 1.

Case: Encapsulated.

Material: Epoxy.

Weight: 1 ounce.

Operating temperature range: -55°C to +155°C.

Altitude: 50,000 feet.

Terminals: Wire leads, type E, number 22 AWG, 6 inches long in accordance with MIL-DTL-16878.

Terminal strength: MIL-STD-202, method 211, test condition A, 5 pounds.

Dielectric withstanding voltage:

At sea level: 1,000 volts

At barometric pressure: 600 volts

Electrical characteristics:

Inductance: With 1 volt rms, 400 Hz across (1-2), "X" A dc applied to (1-2), the inductance shall be "X" μ H minimum. (For "X" see table I.)

Temperature rise: 35°C with 1.0 volt rms, 60 Hz, 400 Hz, and rated current applied to (1-2) at an ambient temperature of 120°C.

DC resistance (1-2): See table I.

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 Identification Number (PIN): M27/207-(dash number from table I.)

TABLE I. Electrical rating and physical characteristics.

Dash No	Inductance μ H min (1-2)	Voltage rms (1-2)	Frequency Hz (1-2)	Current Amps (rms) (1-2)	DC resistance ohms (max)	Working voltage (1-2)	Power
01	400	1.0	400	1.6	0.5	115 V rms	1.6 VA
02	800	1.0	400	0.4	1.0	115 V rms	0.4 VA
03	300	1.0	400	2.0	0.5	115 V rms	2.0 VA

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
MIL-DTL-16878

Custodians:

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

Preparing activity:

DLA - CC

(Project 5950-2009-076)

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 the information above using the ASSIST Online database at <https://assist.daps.dla.mil>.