

INCH-POUND

MIL-T-27/207A
13 March 1991
SUPERSEDING
MIL-T-27/207
20 MARCH 1978

MILITARY SPECIFICATION SHEET

TRANSFORMERS AND INDUCTORS (AUDIO, POWER AND HIGH-POWER PULSE),
INDUCTORS, POWER, TF5V04ZZ

(A) Inactive for new design after
the date of this specification.

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 the issue of the following specification
listed in that issue of the Department of Defense Index of Specifications
and Standards (DODISS) specified in the solicitation. MIL-T-27.

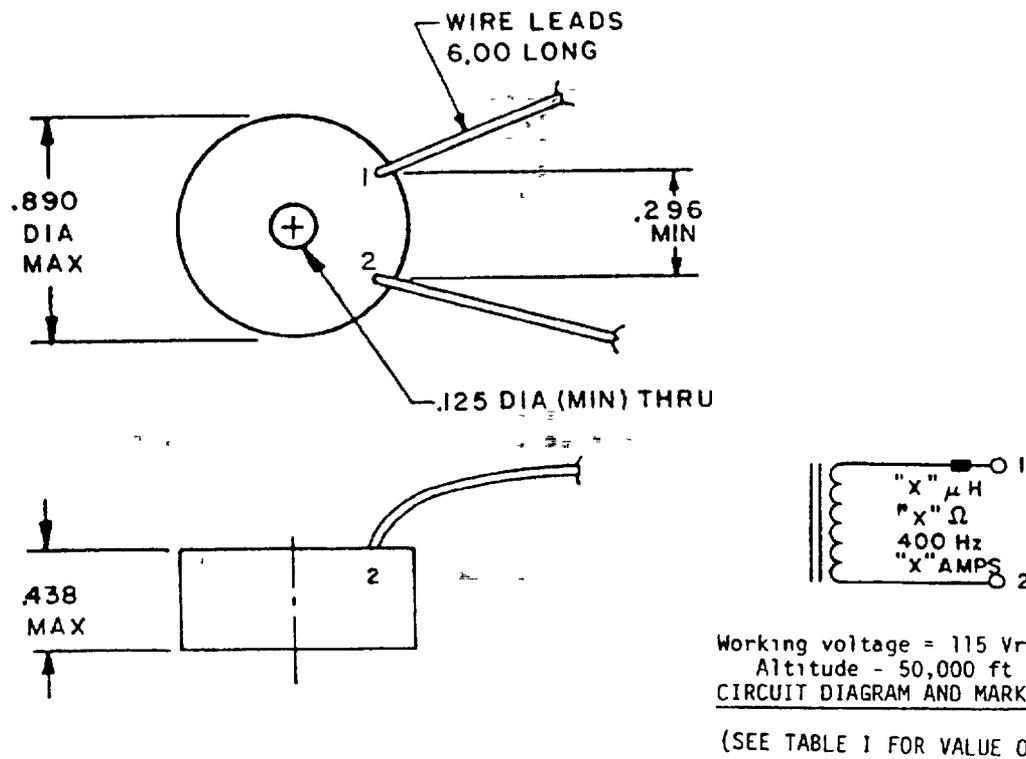


FIGURE 1 Dimensions and configurations.

(A) denotes changes

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

FIGURE 1. Dimensions and configurations - Continued.

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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 windings.)

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-W-16878.

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

Dielectric withstanding voltage:

At sea level: 1,000 volts rms.

At reduced barometric pressure: 600 volts rms.

Electrical characteristics: See table I

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

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

DC resistance (1-2) See table I.

Ⓐ Quality assurance provisions

Qualification inspection: Not applicable

Quality conformance inspection: Groups A and B tests of MIL-T-27 shall be applicable.

Marking location See figure 1.

Part number: M27/207-(dash number from table I.)

TABLE I Electrical rating and physical characteristics.

Dash no	Inductance μH 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

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CONCLUDING MATERIAL

Custodians.

Army - ER
Navy - EC
Air Force - 85

Review activities.

Army - MI
Navy - OS, SH
Air Force - 17, 99
DLA - ES

User activities.

Army - AR, ME
Navy - AS, MC
Air Force - 19

Preparing activity.

Army - ER

Agent:

DLA - ES

(Project 5950-0753-41)