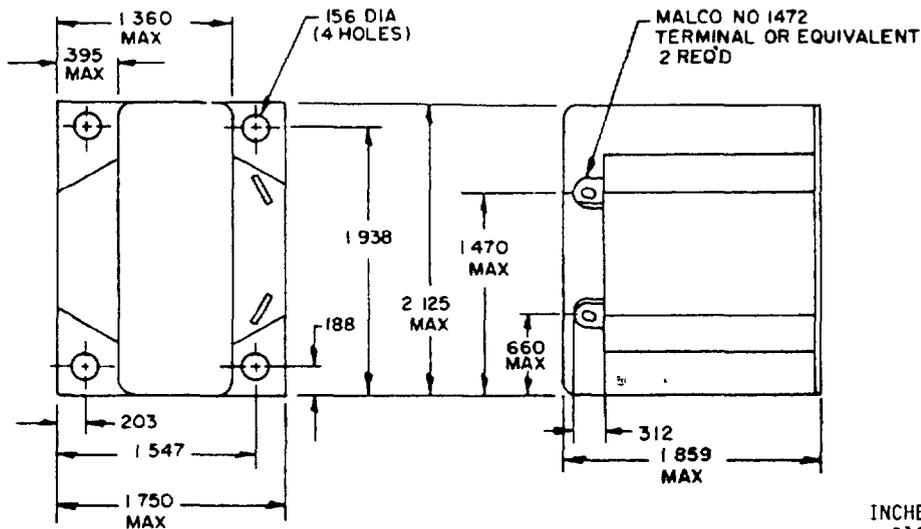


MIL-T-27/160A
 04 APR 1980
 SUPERSEDING
 MIL-T-27/160
 10 May 1979

MILITARY SPECIFICATION SHEET
 TRANSFORMERS AND INDUCTORS
 (AUDIO, POWER AND HIGH-POWER PULSE)
 INDUCTION, POWER, TF5S04ZZ

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.



ALTITUDE: 70 kFt MAX
 WORKING VOLTAGE (PEAK): 1070 V

CIRCUIT DIAGRAM AND MARKING

INCHES	MM
.016	.41
.156	3.96
.188	4.78
.203	5.16
.312	7.92
.395	10.03
.660	16.76
1.360	34.54
1.470	37.34
1.547	39.29
1.750	44.45
1.859	47.22
1.938	49.23
2.125	53.98

NOTES

- 1 Dimensions are in inches
- 2 Metric equivalents are given for general information only and are based upon 1.00 inch = 25.4 mm
- 3 Unless otherwise specified, tolerance on overall case dimensions is ± 0.016 inch (.41 mm)
- 4 Marking shall be on the side of the case

FIGURE 1 Dimensions and configuration

(A) denotes changes

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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) 1.0 H, minimum
Voltage (1-2) 10 volts, 60 Hz.
Current (1-2) 200 mAdc
DC resistance (1-2) 69 ohms, maximum.
Working voltage (peak) 1,070 volts
Power 2.2 W.

Design and construction

Dimensions and configuration See figure 1.
Duty cycle Continuous.
Case Encapsulated.
Material Epoxy
Terminals Solder terminal, Malco No 1472 or equivalent.
Height 0.312 inch \pm 0.016.
Weight 408 grams, maximum
Altitude 70,000 feet, maximum.
Operating temperature range -55°C to $+130^{\circ}\text{C}$.

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

Vibration (high frequency) MIL-STD-202, method 204

Dielectric withstanding voltage:

At sea level 2,500 volts rms.
At barometric pressure 1337.5 volts rms.

Electrical characteristics

Inductance With 10 volts, 60 Hz across (1-2), and 200 mAdc applied to (1-2) the inductance shall be 1.0 H minimum

Temperature rise 45°C with 10 volts, 60 Hz, 200 mAdc applied to (1-2) at an ambient temperature of 85°C .

Marking location See figure 1

Part number M27/160-01.

Administrations

Army - ER
Navy - EC
Air Force - 85

Review activities

Army - AR
Navy - SH, OS
Air Force - 11, 17, 99
DLA - ES

Other activities

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

Preparing activity

Army - ER

Agent

DLA - ES

(Project 5950-0569-8)

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