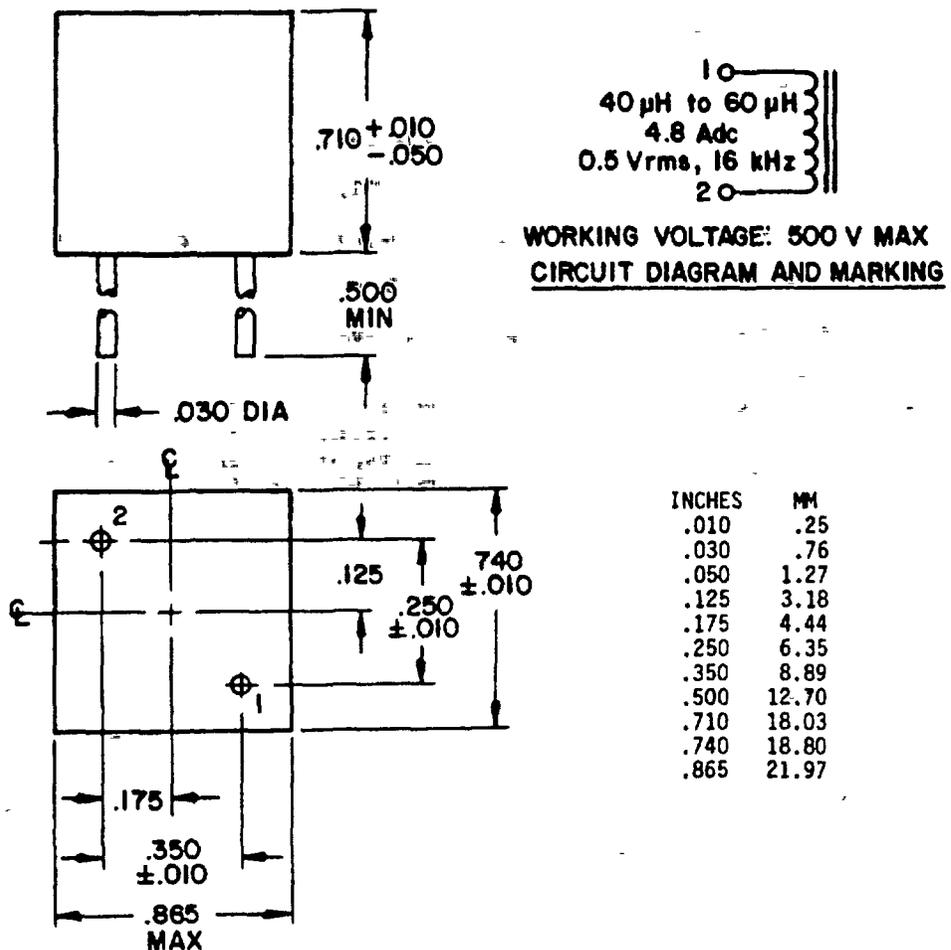


MILITARY SPECIFICATION SHEET

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



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. Marking shall be on the side of the case.

FIGURE 1. Dimensions and configuration.

MIL-T-27/191

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): 40 microhenries to 60 microhenries.
Voltage (1-2): 0.5 volts rms, 16 kilohertz.
Current (1-2): 4.8 amperes dc.
DC resistance (1-2): .030 ohms, maximum.
Working voltage: 500 volts, maximum.

Design and construction:

Dimensions and configuration: See figure 1.
Duty cycle: Continuous.
Case: Encapsulated.
Material: Epoxy.
Terminals: Pin type, tinned copper.
Height: .500 inch, minimum.
Diameter: .030 inch.
Weight: 27.21 grams, maximum.
Operating temperature range: -55°C to +130°C.

Terminal strength: MIL-STD-202, method 211, test condition A, 2 pounds.

Shock (specified pulse): MIL-STD-202, method 213, test condition A.

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

Dielectric withstanding voltage (at sea level): 500 volts rms.

Electrical characteristics:

Inductance: With .5 volt rms, 16 kilohertz and 4.8 amperes dc applied to (1-2), the inductance shall be 40 microhenries, minimum, 60 microhenries, maximum.
Temperature rise: 20°C with .5 volt rms, 16 kilohertz 4.8 amperes, dc applied to (1-2) at an ambient temperature of 125°C, maximum.

Marking location: See figure 1.

Part number: M27/191-01.

Custodians:

Army - EL
Navy - EC
Air Force - 85

Preparing activity:

Army - EL

Agent:

DLA - ES

Review activities:

Army - #1
Navy - SH, OS
Air Force - 11, 17, 99
DLA - ES

(Project 5950-0538-51)

User activities:

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

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DOCUMENT IDENTIFIER (Number) AND TITLE MTL-T-27/191 TRANSFORMERS AND INDUCTORS (AUDIO, POWER AND HIGH-POWER PULSE) INDUCTOR, POWER, TFSOLZZ
NAME OF ORGANIZATION AND ADDRESS OF SUBMITTER

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2 REMARKS

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