

INCH-POUND

MIL-PRF-27/190A
18 July 2008
SUPERSEDING
MIL-T-27/190
18 October 1977

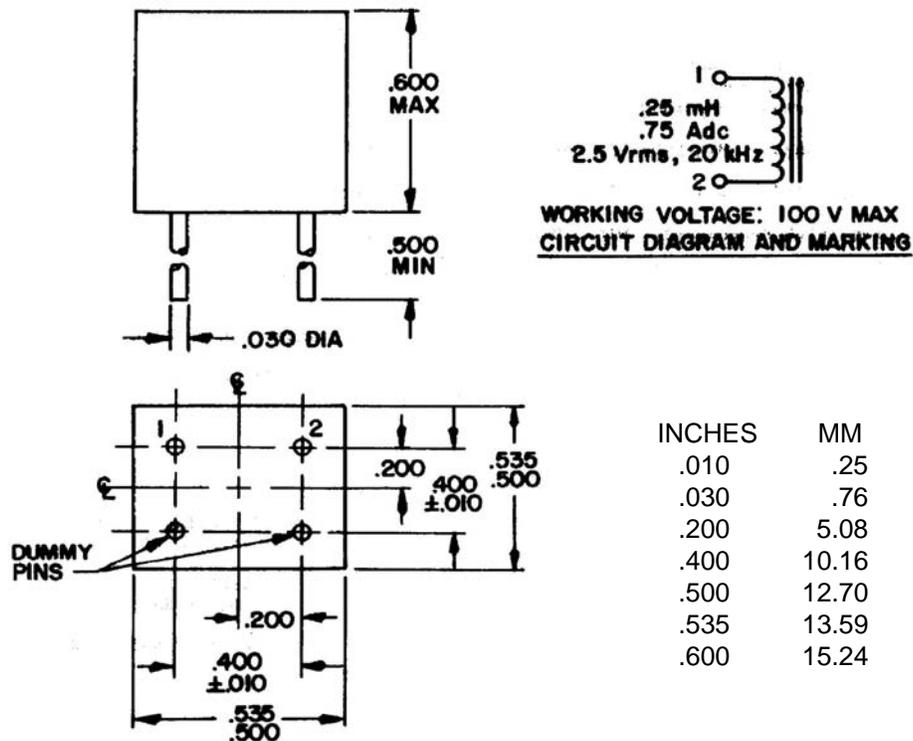
PERFORMANCE SPECIFICATION SHEET

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

Inactive for new design
after 14 February 1997

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

The requirements for acquiring the products described herein shall consist of this specification and MIL-PRF-27.



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.

FIGURE 1. Dimensions and configurations.

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REQUIREMENTS: (When designations or colors in parentheses, i.e., (COM-HV) (BLK-WHT) are used, they indicate the winding and the extreme terminals of the winding.)

Electrical ratings:

Inductance (1-2): .25 millihenry, minimum.

Voltage (1-2): 2.5 volts rms, 20 kilohertz.

Current (1-2): .75 ampere dc.

DC resistance (1-2): 2 ohms, maximum.

Working voltage: 100 volts, maximum.

Design and construction:

Dimensions and configuration: See figure 1.

Duty cycle: Continuous.

Case: Encapsulated.

Material: Epoxy.

Weight: 9.07 grams, maximum.

Terminals: Pin type, tinned copper.

Height: .500 inch, maximum.

Diameter: .030 inch.

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 204

Vibration, high frequency: MIL-STD-202, method 204, test condition A.

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

Electrical characteristics:

Inductance: With 2.5 volts rms, 20 kilohertz and .75 ampere dc applied to (1-2) the inductance shall be .25 millihenry, minimum.

Temperature rise: 20°C with 2.5 volts rms, 20 kilohertz, .75 ampere dc applied to (1-2) at an ambient temperature of +125°C.

VERIFICATION:

Qualification inspection: Not applicable for this specification sheet.

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

Marking location: See figure 1.

Part or Identifying Number (PIN): M27/190-01.

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 the following:

MIL-STD-202

Custodians:

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

Preparing activity:
DLA – CC

(Project 5950-2008-024)

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