

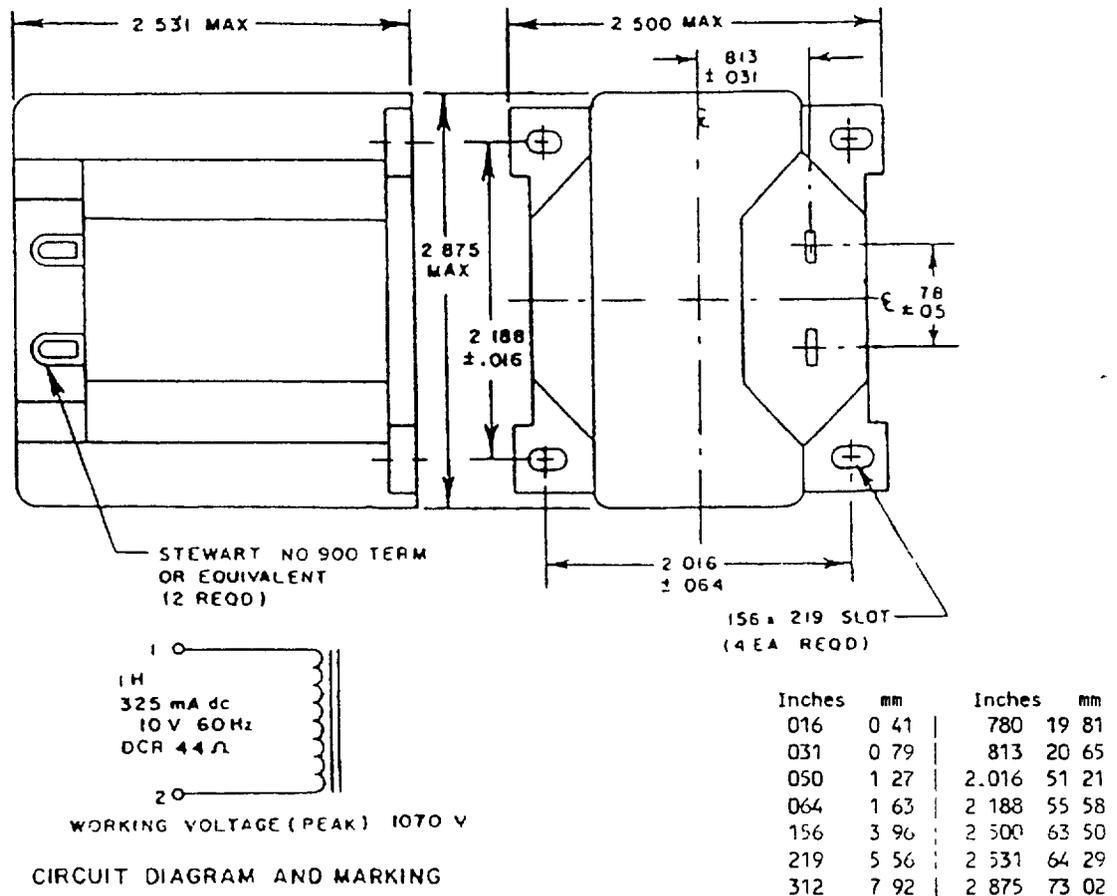
MIL-T-27/179C
 8 April 1992
 SUPERSEDING
 MIL-T-27/179B
 23 July 1990

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 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



CIRCUIT DIAGRAM AND MARKING

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

(C) denotes changes

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REQUIREMENTS (When numbers in parentheses, i.e., (1-2) are used, they indicate the winding and extreme terminals of the windings)

Electrical ratings

Inductance (1-2) 1.0 henry minimum
Voltage (1-2) 10 volts, 60 Hz maximum
Current (1-2) 325 mA dc
DC resistance (1-2) 44 ohms maximum
Working voltage (peak) 1,070 volts
Power 4.6 watts

Design and construction

Dimensions and configurations See figure 1
Duty cycle Continuous
Case Encapsulated
Material Epoxy
Terminals Solder type, Stewart number 900 or equivalent

① Height 0.350 inch \pm 0.100

Weight 0.95 kilogram maximum
Operating temperature range -55°C to $+130^{\circ}\text{C}$

Terminal strength MIL-STD-202, method 211, test condition A, 2 pounds and test condition E, 8 ounce-inches

Shock (specified pulse) MIL-STD-202, method 213, test condition H

Dielectric withstanding voltage (at sea level) 2,500 volts rms

Electrical characteristics

Inductance With 10.0 volts rms, 60 Hz across (1-2), and 325 mA dc applied to (1-2), the inductance shall be 1.0 H minimum

Temperature rise 45°C maximum with 10.0 volts rms, 60 Hz, 325 mA dc applied to (1-2) at an ambient temperature of 85°C

Marking location See figure 1

Part or Identifying Number (PIN) M27/179-01

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 5950-0790)