

INCH-POUND

MIL-T-27/295B  
20 April 1993  
SUPERSEDING  
MIL-T-27/295A  
4 November 1980

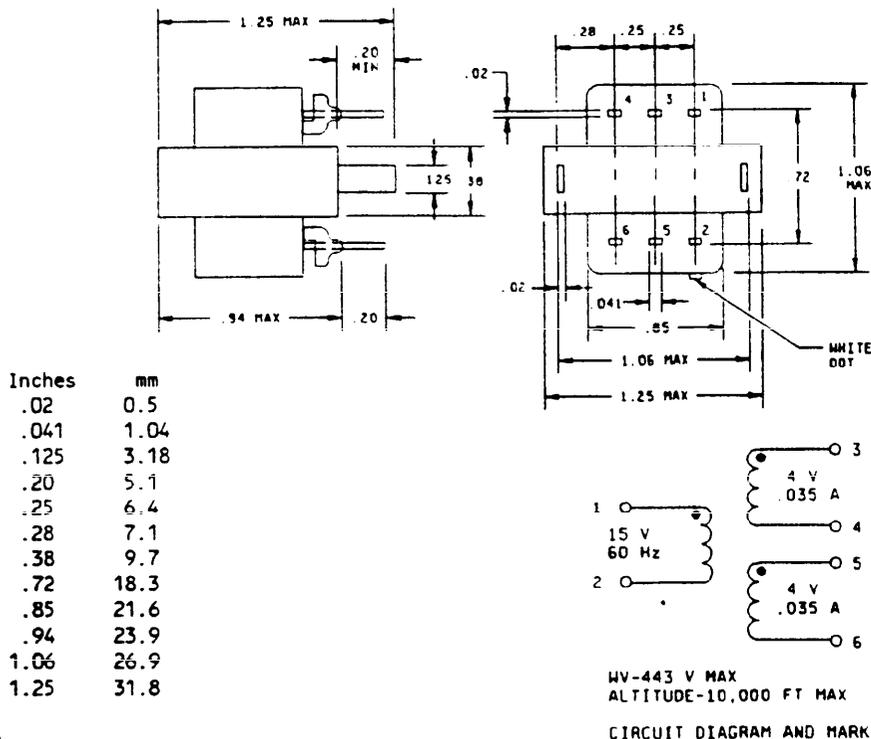
MILITARY SPECIFICATION SHEET

TRANSFORMER, POWER, STEP-DOWN, TF5R032Z

(B) 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.



NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified, tolerances are  $\pm 0.005$  (0.13 mm) for three-place decimals and  $\pm 0.03$  (0.8 mm) for two-place decimals.
4. Tolerance on terminal position dimensions is  $\pm 0.015$  (0.38 mm).
5. Marking shall be on the top of the case.
6. Terminal numbers are not required. Terminal number 2 is indicated by white dot as shown.

FIGURE 1. Dimensions and configurations.

(B) denotes changes  
1 of 3

AMSC N/A

FSC 5950

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

Electrical ratings:

Primary voltage (1-2): 115 volts rms, 60 Hz.

Primary current (1-2): 0.035 ampere.

Volt ampere: .66 voltampere.

Secondary:

(3-4): 4 volts, .035 ampere rms.

(5-6): 4 volts, .035 ampere rms.

Working voltage: 443 volts, maximum.

Design and construction:

Dimensions and configuration: See figure 1.

Duty cycle: Continuous.

Case: Encapsulated.

Material: Epoxy.

Terminals: Solder type.

Material: Brass, tinned or silver plated.

Height: .20 ±.03 inch.

Width: .041 ±.005 inch.

Thickness: .02 ±.03 inch.

Weight: 56 grams, maximum.

Operating temperature range: +5°C to +105°C.

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

Dielectric withstanding voltage (at sea level): 1,240 volts rms.

Electrical characteristics:

No load: With 15 volts rms, 60 Hz across (1-2), current in (1-2) shall not exceed .024 ampere and the power in (1-2) shall not exceed .100 watts.

Voltage across (3-4) and (5-6): 7.65 volts ±5 percent.

Rated load: With 15 volts rms, 60 Hz across (1-2) and 35 milliamperes resistive load in (3-4) and (5-6), the voltage across (3-4) and (5-6) shall be 4 volts ±10 percent.

DC resistance:

(1-2): 157 ohms ±20 percent.

(3-4): 28.1 ohms ±20 percent.

(5-6): 27.9 ohms ±20 percent.

Polarity: Additive, with terminals 2, 3 and 5 connected.

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Temperature rise: 40°C maximum with rated voltage and current at an ambient temperature of 65°C.

Shock (high impact): MIL-STD-202, method 207.

Ⓑ Quality assurance provisions:

Qualification inspection: Not applicable for this specification sheet.

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

Marking location: See figure 1.

Part or Identifying Number (PIN): M27/295-01.

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, WC  
Navy - AS, MC  
Air Force - 19

Preparing activity:

Army - ER

Agent:

DLA - ES

(Project 5950-0815-30)