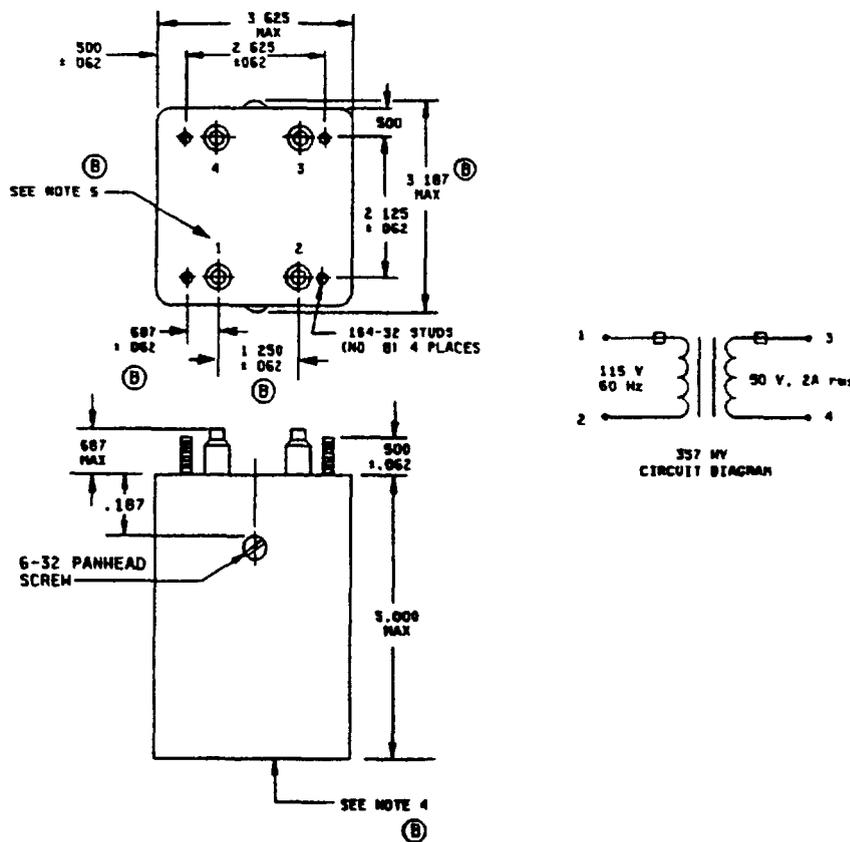


MILITARY SPECIFICATION SHEET

TRANSFORMERS, POWER, STEP-DOWN, TF4S03YY

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 general information only.
- 3 Tolerance on terminal position dimensions is ± 0.064 (1.63 mm).
- 4 Marking shall be on the top of the case
5. Mark terminals as shown (4 places).

FIGURE 1. Dimensions and configuration

(B) denotes changes

MIL-T-27/140B

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

Electrical ratings

Volt ampere 100

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

ⓑ Secondary voltage (3-4) 50 volts, ± 2 volts, 2 amperes rms.

DC resistance

(1-2) 3.5 ohms maximum

(3-4) 0.75 ohms maximum

Working voltage (1-2) (3-4) 357 volts maximum

Design and construction:

Dimensions and configuration See figure 1

Duty cycle Continuous

Case Metal

ⓑ Terminals Solder type, brass, tin plated (Neoprene-Ceramic or equal).

Terminal height 0.687 maximum

ⓑ Weight: 6.8 pounds (maximum).

Operating temperature range. -55°C to $+130^{\circ}\text{C}$.

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

Dielectric withstanding voltage:

At sea level 1,500 volts rms.

Electrical characteristics:

No load With 115 volts, 60 Hz across (1-2), current in (1-2) shall not exceed 0.250 ampere and the power in (1-2) shall not exceed 4.5 watts, voltage across (3-4) shall be 52.57 volts ± 2 percent.

ⓑ Rated load With 115 volts, 60 Hz across (1-2), the voltage across (3-4) shall be 50 volts ± 4 percent at 2 amperes rms

Polarity: Additive with terminals 2 and 3 connected.

ⓑ Temperature rise: 45°C with 115 volt rms, 60 Hz across (1-2), at an ambient temperature of 85°C maximum, at 2 amperes rms on (3-4)

Marking location See figure 1

ⓑ Part or Identifying Number (PIN): M27/140-01

CONCLUDING MATERIAL

Custodians:

Army - ER
Navy - EC
Air Force - 85

Review activities:

Army - MI
Navy - SH, OS
Air Force - 17, 99

User activities:

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

Preparing activity:

Army - ER

Agent:

DLA - ES

(Project 5950-0805)