

NOTE: The document identifier and heading have been changed on this page to reflect that this is a performance specification. There are no other changes to this document. The document identifier on subsequent pages has not been changed, but will be changed the next time this document is revised.

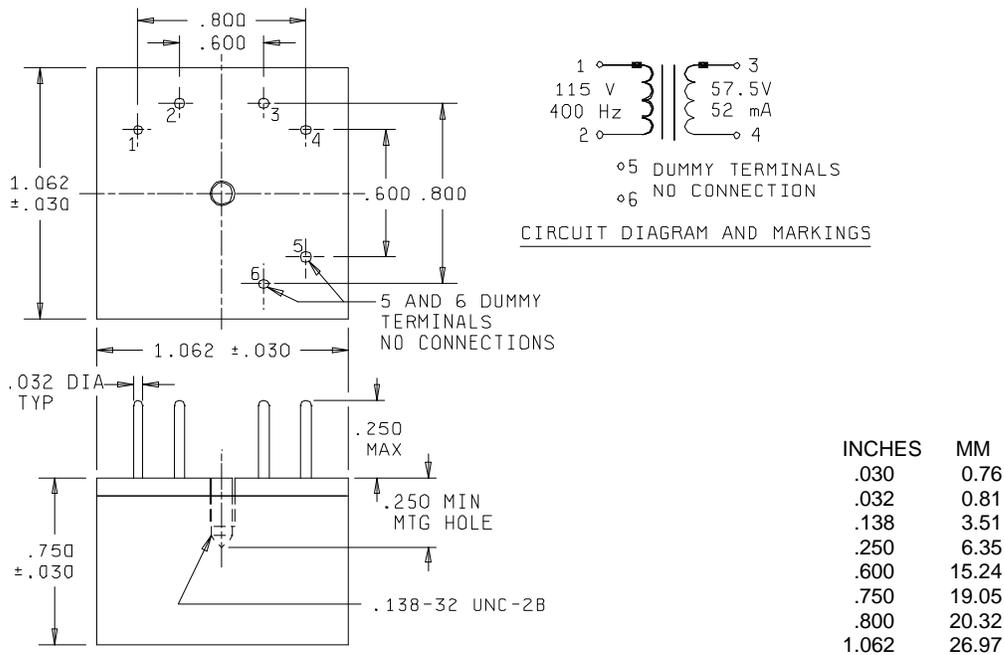
MIL-PRF-27/26
4 September 1975

PERFORMANCE SPECIFICATION SHEET

TRANSFORMER, POWER, 3.0 VOLT-AMPERES, 400 HZ, TF5T03ZZ313

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

The complete requirements for procuring the transformers 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 (to the nearest .01 mm) are given for general information only and are based upon 1 inch = 25.4 mm.
3. Tolerance on terminal position dimensions is ±.015 (0.40 mm).
4. Marking shall be on the top of the case.

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

Electrical ratings:

Primary voltage -
(1-2) 115 volts, 400 Hz \pm 1 percent.
Secondary current -
(3-4) 52 mA rms.
Secondary voltage -
(3-4) 57.5 volts.
Working voltage -
(3-4) 325 volts peak.
VA ratings - 3.0 volt-amperes.

Design and construction:

Dimensions and configuration - See figure.
Duty cycle - Continuous.
Case - Molded.
Material - Diallyl -phthalate (GDI-30F).

Terminals - Pin type, brass-hot solder dip.

Terminal height - .25 inch maximum.
Weight - 47 grams maximum.
Operating temperature range - -55°C to $+170^{\circ}\text{C}$.
Altitude - 70,000 feet maximum.

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

Dielectric withstanding voltage:

At sea level - 910 volts rms.
At reduced barometric pressure (70,000 feet) - 407 volts rms.

Electrical characteristics:

No load - With 115 volts, 400 Hz across (1-2), the current in (1-2) shall not exceed 6.0 mA maximum.
Rated load - With 115 volts, 400 Hz across (1-2) and a 52 mA load in (3-4), the voltage across (3-4) shall be 57.5 volts \pm 3 percent.
Efficiency - 75 percent minimum at rated load.

Temperature rise: 20°C maximum.

Marking location: See figure.

Military part number: M27/26-01.

Custodians:

Army - EI
Navy - EC
Air Force - 85

Preparing activity:

Army - EL

Agent:

DSA - ES

Review activities:

Army - EI, MU
Navy - EC
Air Force - 11, 17, 85
DSA - ES

(Project 5950-0487)

User activities:

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