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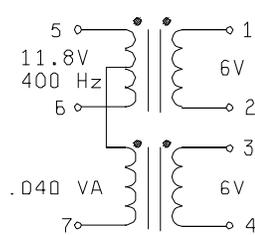
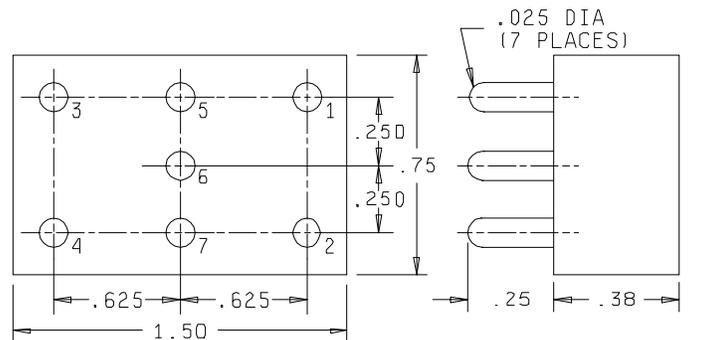
MIL-PRF-27/27
15 September 1975

PERFORMANCE SPECIFICATION SHEET

TRANSFORMER, POWER, STEP-DOWN, TF5V03ZZ314

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.



INCHES	MM
.025	0.64
.250	6.35
.38	9.65
.625	15.88
.75	19.05
1.50	38.10

CIRCUIT DIAGRAM AND MARKING

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 ± 0.005 (0.13 mm) and ± 0.02 (0.51 mm) for remaining dimensions.
4. Marking shall be on the top of the case.
5. Terminals (5-6-7) may be to synchro input and terminals (1-2-3) may be to resolver output.

FIGURE 1. Dimensions and configuration.

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

Electrical ratings:

Primary voltage:

(5-6-7) - 11.8 volts, 400 Hz, 0.0035 Ampere maximum.

Secondary voltage:

(1-2) - 6 volts, .6 mA rms:

(3-4) - 6 volts, .6 mA, rms.

Working voltage:

(5-6-7) - 18 volts maximum.

(1-2) (3-4) - 18 volts maximum.

Volt ampere: .040.

Design and construction:

Dimensions and configuration: See figure 1.

Duty cycle: Continuous.

Case: Encapsulated.

Material: Diallyl phthalate, glass filled.

Terminals: Pin type, copper clad, steel, tinned, copper weld.

Terminal height: .25 inch.

Weight: 20 grams.

Operating temperature range: -55°C to 155°C.

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

Dielectric withstanding voltage (at sea level): 50 volts rms.

Electrical characteristics:

No load - With 11.8 volts, 400 Hz across (5-6-7), current in (5-6-7) shall not exceed 3 mA and the power in (5-6-7) shall not exceed 5 milliwatts.

Voltage across (1-2) and (3-4) shall be 6 volts, respectively.

Rated load - With 11.8 volts, 400 Hz; .0035 ampere, maximum across (5-6-7).

Voltage across (1-2) and (3-4) shall be 6 volts, respectively.

Shaft angle transformation accuracy: 5 minutes of arc synchro input to resolver output.

Temperature rise: 5°C maximum.

Marking location: See figure 1.

Part number: M27/27-01.

Custodians:

Army - EL

Navy - EC

Air Force - 85

Preparing activity:

Army - EL

Agent:

DSA - ES

Review activities:

Army - EL, MI, SG

Navy - EC, SH, OS

Air Force - 11, 17, 80

DSA - ES

(Project 5950-0496)

User activities:

Army - MJ, WC, SG, ME

Navy - MC, AS, SH, OS

Air Force - 19