

MILITARY SPECIFICATION SHEET

TRANSFORMER, POWER, STEP-DOWN, TF4SD3AH

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 specifications listed in that issue of the Department of Defense Index of Specifications and Standards (DODISS) specified in the solicitation. MIL-T-27.

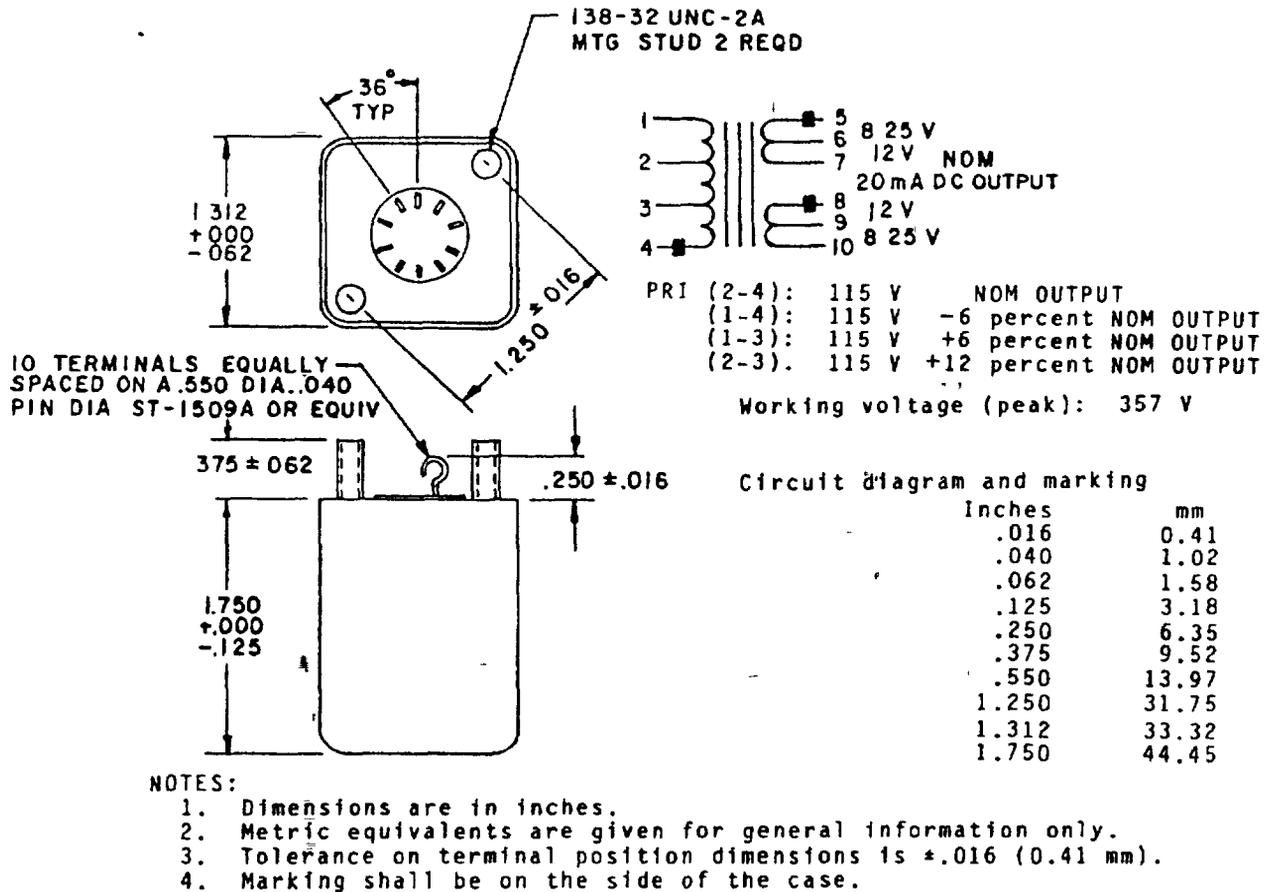


FIGURE 1. Dimensions and configurations.

(B) denotes changes

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

Electrical ratings

TABLE I. Electrical ratings.

Dash no	Primary voltage (rms)	Secondary voltage (rms)			
		(5-6)	(6-7)	(8-9)	(9-10)
01	(2-4) 115 V, 50/60 Hz	8.25	12.0	12.0	8.25
	(1-4): 115 V, 50/60 Hz	7.76	11.28	11.28	7.76
	(1-3): 115 V, 50/60 Hz	8.74	12.72	12.72	8.74
	(2-3): 115 V, 50/60 Hz	9.24	13.44	13.44	9.24

Primary current: 40 milliamperes, maximum.

Secondary current: 20 milliamperes dc output, maximum.

Volt-ampere rating 0.81.

Working voltage (peak): 357 volts.

Design and construction:

Dimensions and configuration: See figure 1.

Duty cycle: Continuous.

Case: Metal.

Material: Steel.

Terminals: Hook type, ST-1509A, or equivalent.

Height: 0.250 ±0.016 inch.

Weight: 170 grams, maximum.

Altitude: 50,000 feet maximum.

Operating temperature range: -55°C to +130°C.

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

Dielectric withstanding voltage (at sea level): 1,000 volts rms.

Electrical characteristics:

No load With 115 volts, 60 Hz across (2-4), current in (2-4) shall not exceed 40 milliamperes and the power in (2-4) shall not exceed 0.75 watt

Voltage across

(5-7) 24.75 \pm 3 percent.
(8-10). 24.75 \pm 3 percent.

- ⓑ Rated load With 115 volts, 60 Hz across (2-4), the voltage across (5-7) and (8-10) shall be 21.35 volts \pm 3 percent

DC resistance:

(1-4) 750 ohms, maximum.
(5-7) 78 ohms, maximum.
(8-10). 88 ohms, maximum.

Polarity: Additive, with (1-5) and (7-8) connected.

Temperature rise: +40°C with 115 volts rms, 60 Hz across (2-4) at an ambient temperature of +90°C.

Marking location. See figure 1.

- ⓑ Part or Identifying Number (PIN): M27/184-01 The term Part or Identifying Number (PIN) is equivalent to the term part number which was previously used in this specification.

CONCLUDING MATERIAL

Custodians
Army - ER
Navy - EC
Air Force - 85

Review activities:
Army - AR
Navy - OS, SH
Air Force - 17, 99
DLA - ES

User activities:
Army - ME
Navy - AS, MC
Air Force - 19

Preparing activity
Army - ER
Agent
DLA - ES

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