

INCH-POUND

MS16474D  
 15 July 1993  
 SUPERSEDING  
 MS16474C  
 2 June 1982

## MILITARY SPECIFICATION SHEET

TRANSFORMER, POWER, STEP-DOWN  
 TYPE TF4SX01EB206

Inactive for new design after 23 June 1981.  
 No superseding standard.

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.

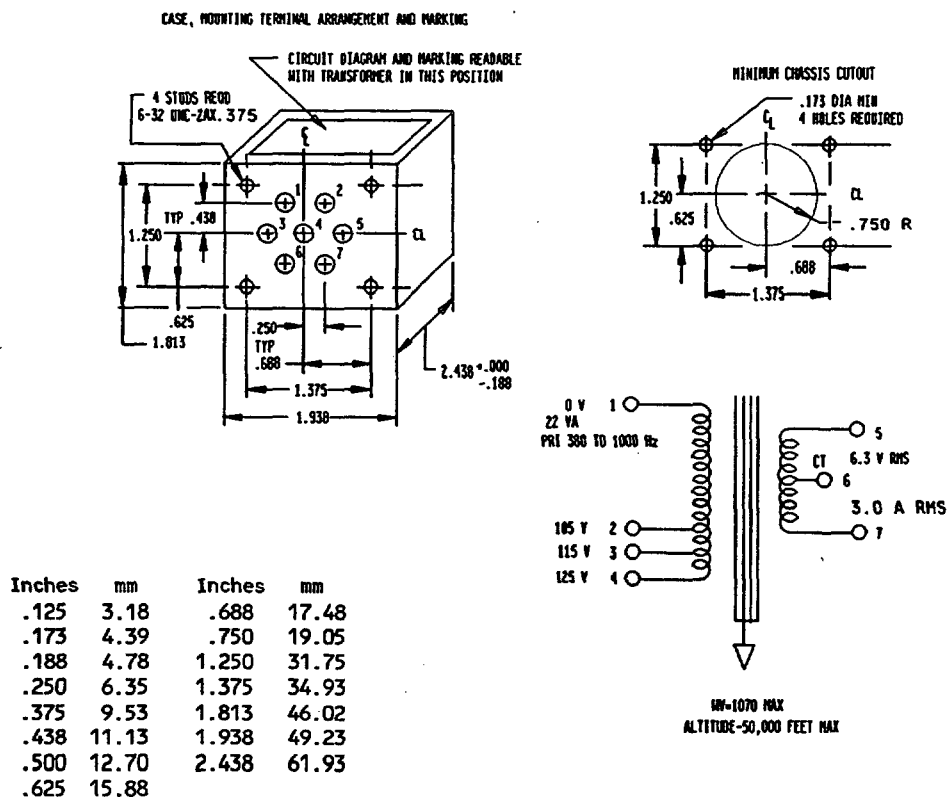


FIGURE 1. Dimensions and configurations.

Ⓢ denotes changes

AMSC N/A

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FSC 5950

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

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## NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerance on case dimensions are  $\pm .000$  (0.00 mm),  $-.125$  (3.18 mm).
4. Tolerance on mounting dimensions are  $\pm .016$  (0.41 mm). Mounting studs are symmetrically located with respect to the centerline of the case.
5. Tolerance on terminal position dimensions are  $\pm .031$  (0.79 mm). Terminals fit within minimum chassis cutout.
6. Type designation, MS PIN and manufacturer's name or symbol to be marked on side opposite terminals.

FIGURE 1. Dimensions and configurations - Continued.

REQUIREMENTS: (When numbers in parentheses, i.e., (1-4) are used, they indicate the winding and the extreme terminals of the winding.)

## Electrical ratings:

## Primary voltage:

(1-2-3-4): 105/115/125 volts rms, 380 to 1,000 Hz, 22 VA.

## Secondary voltage:

(5-6-7): 6.3 volts rms ct, 3 amps rms.

Working voltage: 1,070 volts maximum.

Design, construction and physical dimensions: See figure 1.

Dimensions and configuration: See figure 1.

Duty cycle: Continuous.

Case size: EB.

Terminals: Turret, standoff type.

Terminal height: .813 (20.65 mm) maximum.

Ⓓ

Weight: 1.0 pound maximum.

Operating temperature:  $+130^{\circ}\text{C}$  maximum.

Altitude: 50,000 feet maximum.

Life expectancy: 10,000 hours minimum.

Shock: MIL-STD-202, method 213, test condition I (100 g).

## Dielectric withstanding voltage:

At sea level: (1-4) and (5-7); 2,500 volts rms.

At reduced barometric pressure: (1-4) and (5-7); 1,340 volts rms.

## Electrical characteristics:

No load: With 105 volts, 400 Hz across (1-2), current in (1-2) shall not exceed 55 mA and the power in (1-2) shall not exceed 1.4 watts. Voltage across (5-7) shall be 6.86 volts rms ct  $\pm 2\%$ .

Rated load: With 105/115/125 volts, 380 to 1,000 Hz across (1-2-3-4), the voltage across (5-7) shall be 6.3 volts rms ct  $\pm 2\%$ ; the current in (5-7) shall be 3.0 amperes rms.

## Electrostatic shielding:

Voltage ratio: 5 to 1 at 20 kHz.

DC resistance: (1-4) shall not exceed 23 ohms and (5-7) shall not exceed 0.120 ohm.

Temperature rise:  $40^{\circ}\text{C}$  maximum with 105 volts rms, 400 Hz across (1-2) at an ambient temperature of  $90^{\circ}\text{C}$ .

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Quality assurance provisions:

Qualification inspection: Not applicable for this specification.

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

Part or Identifying Number (PIN): MS16474-1.

CONCLUDING MATERIAL

Custodians:

Army - ER  
Navy - EC  
Air Force - 85

Review activities:

Army - AR  
Air Force - 17  
DLA - ES

User activities:

Army - MI  
Navy - CG, MC  
Air Force - 14, 19

Preparing activity:

Navy - EC

Agent:

DLA - ES

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