

INCH-POUND

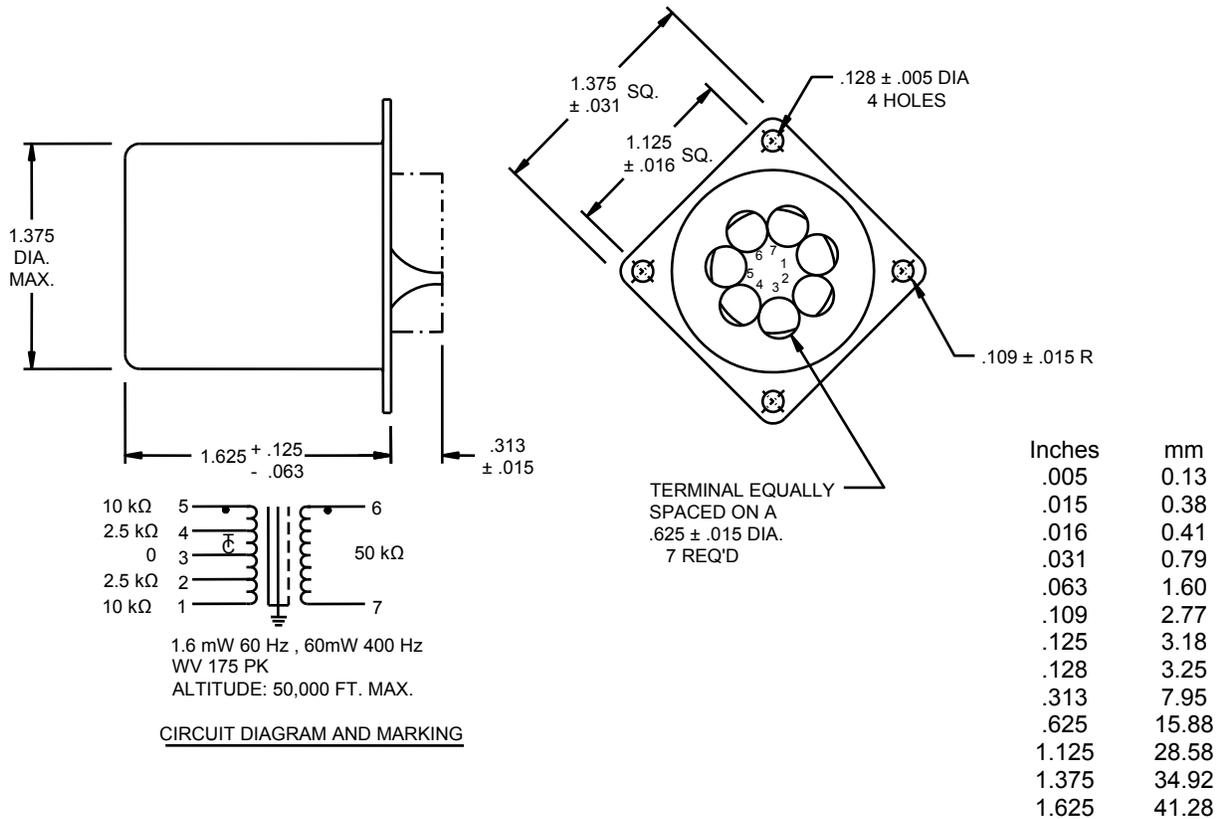
MIL-T-27/185B
9 November 2009
SUPERSEDING
MIL-T-27/185A
8 April 1992

MILITARY SPECIFICATION SHEET
TRANSFORMER (CHOPPER INPUT)

Inactive for new design
after 25 August 1998

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

The requirements for acquiring the transformer described herein shall consist of this specification sheet and MIL-PRF-27.



NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Marking shall be on the side of the case.

FIGURE 1. Dimensions and configurations

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REQUIREMENTS: (When numbers in parentheses, such as (1-3) are used, they indicate the winding and the extreme terminals of the winding.)

Electrical ratings: See table I.

Primary inductance: 200/50 Henrys ct, minimum at 1 volt, 60 Hz.

Primary level: 60 milliwatts at 400 Hz and 1.6 milliwatts at 60 Hz.

Primary impedance:

(1-2-3): 10 K ohms ct.

(3-4-5): 10 K ohms ct.

(2-3-5): 10 K ohms ct.

Secondary impedance (6-7): 50 K ohms.

Primary resistance: 1,300/650 ct ohms ± 25 percent.

Secondary resistance: 1,900 ohms ± 25 percent.

Working voltage: 175 volts peak (1-2).

Frequency range: 60 to 400 hertz.

Design and construction:

Dimensions and configuration: See figure 1.

Duty cycle: Continuous.

Case: Metal encased, hermetically sealed.

Material: Cold-rolled steel.

Terminals: Solder lug, glass-to-metal seal.

Height: $.313 \pm .015$ inch (7.95 ± 0.38 mm).

Weight: 4 ounces.

Terminal strength: [MIL-STD-202](#), method 211, test condition A, 5.0 pounds.

Dielectric withstanding voltage:

At sea level: 500 volts rms.

At reduced barometric pressure: 300 volts rms.

Electrical characteristics:

No load (centertap voltage unbalance only): With 10 volts, 60 hertz and 0 amperes dc applied to (1-5), unbalance (3-5) and (3-1), 1 percent maximum.

Polarity: Additive, with terminals 5 and 7 connected.

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Electrostatic shielding: Voltage ratio 5:1 at 20 kHz.

Marking location: See figure 1.

Part or Identification Number (PIN): M27/185-01.

Changes from previous issue. The margins of this specification are marked with vertical lines to indicate where changes from the previous issue were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the last previous issue.

Referenced documents. In addition to [MIL-PRF-27](#), this document references the following:

[MIL-STD-202](#)

Custodians:

Army - CR
Navy - EC
Air Force - 85
DLA - CC

Preparing activity:
DLA - CC

(Project 5950-2009-011)

Review activities:

Army - AR, CR4
Navy - AS, MC, OS
Air Force - 19, 99

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <http://assist.daps.dla.mil>.