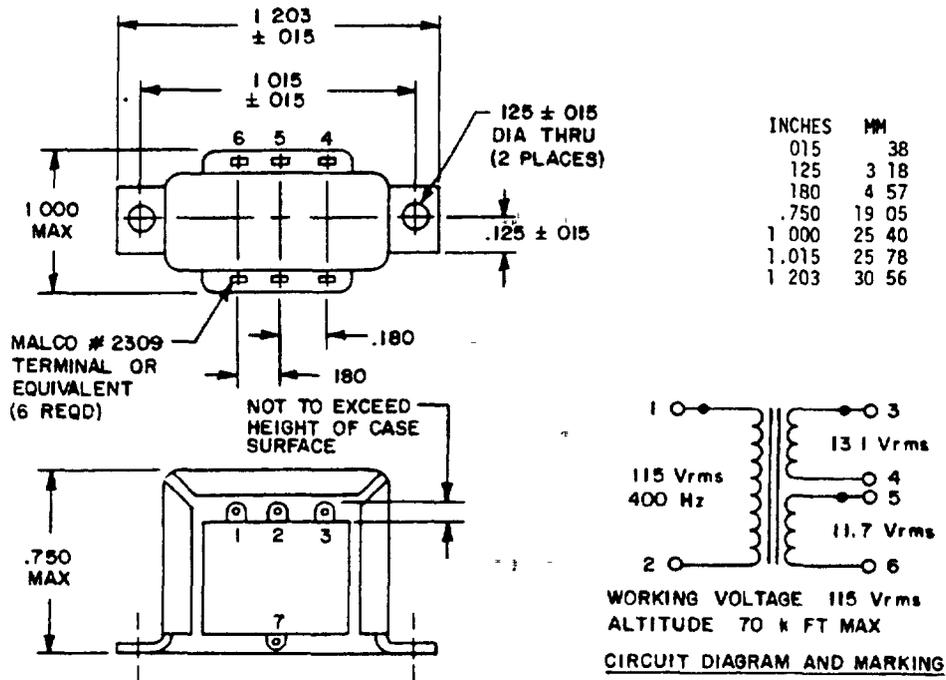


MILITARY SPECIFICATION SHEET

TRANSFORMER, POWER, STEP-DOWN, TF5T03ZZ

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

The complete requirements for procuring the transformer 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 are given for general information only and are based upon 1.00 inch = 25.4 mm
- 3 Marking shall be on side of case

FIGURE 1 Dimensions and configuration

MIL-T-27/227

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 (1-2) 115 volts rms, 400 hertz ± 20 .
Primary current (1-2) 0.02 ampere.
Volt-ampere rating 1.9 volt-amperes.
Secondary voltage
(3-4) 13.1 volts rms
(5-6) 11.7 volts rms.
Secondary current
(3-4) 0.1 ampere.
(5-6) 0.050 ampere.
Working voltage 115 volts rms.

Design and construction

Dimensions and configuration See figure 1.
Duty cycle Continuous.
Case Encapsulated.
Terminals Solder terminal, Malco No 2309 or equivalent.
Terminal height Not to exceed height of case surface.
Altitude 70,000 feet, maximum.
Weight 0.8 ounces, maximum.
Operating temperature range -55°C to $+170^{\circ}\text{C}$.

Terminal strength MIL-STD-202, method 211, test condition A, 5 pounds.

Dielectric withstanding voltage

At sea level 1,500 volts rms.
At reduced barometric pressure 300 volts rms.

Electrical characteristics

No load With 115 volts rms, 400 hertz across (1-2), the current in (1-2) shall not exceed 4 milliamperes and the power in (1-2) shall not exceed 4-7 watts.
Voltage across (3-4) 13.1 volts rms ± 10 percent.
Voltage across (5-6) 11.7 volts rms ± 10 percent.
Rated load With 115 volts ac, 400 hertz across (1-2),
Voltage across (3-4) 13.1 volts rms ± 10 percent.
Voltage across (5-6) 11.7 volts rms ± 10 percent.
DC resistance
(1-2) 370 ohms, maximum.
(3-4) 7.88 ohms, maximum.
(5-6) 8.08 ohms, maximum.
Polarity Additive with 2 and 3, and 4 and 5 connected.

Temperature rise 99°C with 115 volts rms, 400 hertz across (1-2) at an ambient temperature of 71°C

Marking location See figure 1.

Part number M27/227-01.

Custodians

Army - EL
Navy - EC
Air Force - 85

Preparing activity
Army - EL

Agent
DLA - ES

Review activities

Army - MI
Navy - SH, OS
Air Force - 11, 17, 99
DLA - ES

(Project 5950-0555-18)

User activities

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

STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL

OMB Approval
No 22-R255

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DOCUMENT IDENTIFIER AND TITLE MIL-T-27/227 TRANSFORMER, POWER, STEP-DOWN,
TEST0377

NAME OF ORGANIZATION AND ADDRESS

CONTRACT NUMBER

MATERIAL PROCURED UNDER A

DIRECT GOVERNMENT CONTRACT SUBCONTRACT

1 HAS ANY PART OF THE DOCUMENT CREATED PROBLEMS OR REQUIRED INTERPRETATION IN PROCUREMENT USE?

A GIVE PARAGRAPH NUMBER AND WORDING

B RECOMMENDATIONS FOR CORRECTING THE DEFICIENCIES

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