INCH-POUND

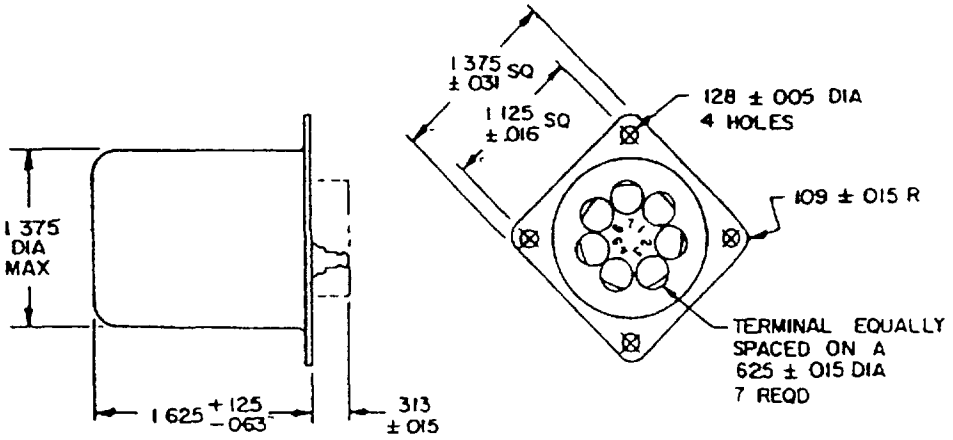
MIL-T-27/185A
8 April 1992
SUPERSEDING
MIL-T-27/185
5 October 1977

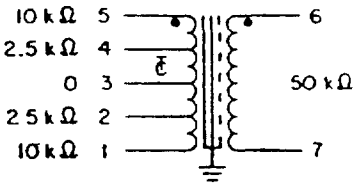
MILITARY SPECIFICATION SHEET

TRANSFORMER (CHOPPER INPUT), TF4R21YY

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




1 6MW 60 Hz, 60 MW 400 Hz
WV 175 PK
ALTITUDE 50,000 FT MAX

CIRCUIT DIAGRAM AND MARKING

| Inches | mm |
|---|---|
| 005 | 0 13 |
| 015 | 0 38 |
| 016 | 0 41 |
| 031 | 0 79 |
| 063 | 1 60 |
| .109 | 2 77 |
| 125 | 3 18 |
| .128 | 3 25 |
| 313 | 7 95 |
| 625 | 15 88 |
| 1 125 | 28 58 |
| 1 375 | 34 92 |
| 1 625 | 41 28 |

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

(A) denotes changes

REQUIREMENTS (When numbers in parentheses, i e , (1-3) are used, they indicate the winding and the extreme terminals of the windings )

Electrical ratings

(A) Primary inductance 200/50 Henrys ct, minimum at 1 volt, 60 hertz

Primary level 60 milliwatts at 400 hertz and 1 6 milliwatts at 60 hertz

(A) Primary impedance

(1-2-3) 10 kilohms ct

(3-4-5) 10 kilohms ct

(2-3-5) 10 kilohms ct

Secondary impedance (6-7) 50 kilohms

(A) Primary resistance 1,300/650 ct ohms ±25 percent

(A) Secondary resistance 1,900 ohms ±25 percent

Working voltage 175 volts peak (1-5)

Frequency range 60 to 400 hertz

Design and construction.

Dimensions and configurations See figure 1

Duty cycle Continuous

Case Metal encased, hermetically sealed

Material Cold-rolled steel

Terminals Solder lug, glass-to-metal seal

Terminal height 313 ± 015 inch

Weight 4 ounces

Altitude 50,000 feet maximum

Operating temperature range -55°C to +105°C

Terminal strength MIL-STD-202, method 211, test condition A, 5 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 |
| Electrostatic shielding | Voltage ratio 5 1 at 20 kHz |

Marking location See figure 1

Part or Identifying Number (PIN) M27/185-01

CONCLUDING MATERIAL

Custodians
Army - ER
Navy - EC
Air Force - 85

Review activities
Army - MI
Navy - OS
Air Force - 17, 99
DLA - ES

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

Preparing activity
Army - ER

Agent
DLA - ES

(Project 5950-0791)