

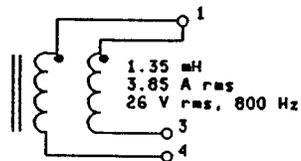
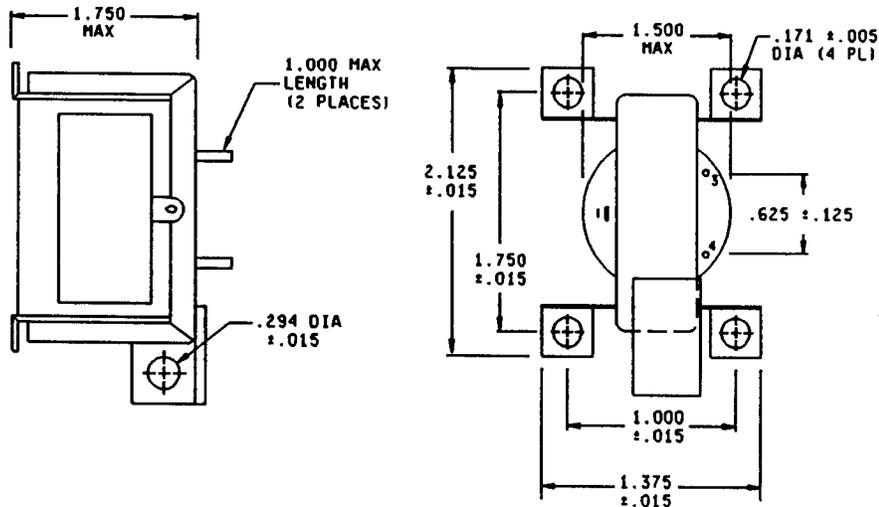
INCH-POUND
 MIL-T-27/261A
11 August 1993
 SUPERSEDING
 MIL-T-27/261
 23 October 1978

MILITARY SPECIFICATION SHEET

TRANSFORMERS AND INDUCTORS
(AUDIO, POWER, AND HIGH-POWER PULSE),
INDUCTORS, POWER (100 VA), TF5T042Z

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.



WORKING VOLTAGE: 26 V (PEAK)
 ALTITUDE - 70,000 FT MAX
CIRCUIT DIAGRAM AND MARKING

Inches	mm	Inches	mm
.005	0.13	.625	15.88
.015	0.38	1.000	25.40
.125	3.18	1.375	34.92
.171	4.34	1.500	38.10
.294	7.47	1.750	44.45
		2.125	53.98

NOTES:

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

FIGURE 1. Dimensions and configuration.

(A) denotes change.

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

Electrical ratings:

Inductance (1-3,4): 1.35 mH minimum.

Voltage (1-3,4): 26 volts rms, 800 Hz.

Current (1-3,4): 3.85 amperes rms.

DC Resistance (1-3,4): 0.2 ohm, maximum.

Working voltage (peak): 26 volts.

Power: 100 VA maximum.

Design and construction:

Dimensions and configuration: See figure 1.

Duty cycle: Continuous.

Case:

Material: Metal encased.

Terminals: (1) Solder lug (copper, tin plated), (2) solid wire leads (J-W-1177/12, type H2, No. 19 AWG).

Height: Lug (.375 inch max.); leads (1.000 inch max. length).

Weight: 6 ounces maximum.

Operating temperature range: -55°C to +170°C.

Altitude: 70,000 feet.

Terminal strength: MIL-STD-202, method 211, test condition A, 5.0 pounds, for the lug and 2 pounds for the wire leads.

Dielectric withstanding voltage

At sea level: 1,000 volts rms.

At reduced barometric pressure: 300 volts rms.

Electrical characteristics:

Inductance: With 26 volts, 800 Hz and 3.85 amperes applied to (1-3,4), the inductance shall be 1.35 mH minimum.

Temperature rise: 99°C, with 26 volts rms, 800 Hz and 3.85 amperes applied to (1-3,4) at an ambient temperature of 71°C.

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Quality assurance provisions.

Qualification inspection: Not applicable.

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

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Marking location: See figure 1.

Part or Identifying Number (PIN): M27/261-01.

CONCLUDING MATERIAL

Custodians:

Army - ER
Navy - EC
Air Force - 85

Review activities:

Army - AR
Navy - OS, SH
Air Force - 17, 99

User activities:

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

Preparing activity:

Army - ER

Agent:

DLA - ES

(Project 5950-0822)