

NOTE: The document identifier and heading have been changed on this page to reflect that this is a performance specification. There are no other changes to this document. The document identifier on subsequent pages has not been changed, but will be changed the next time this document is revised.

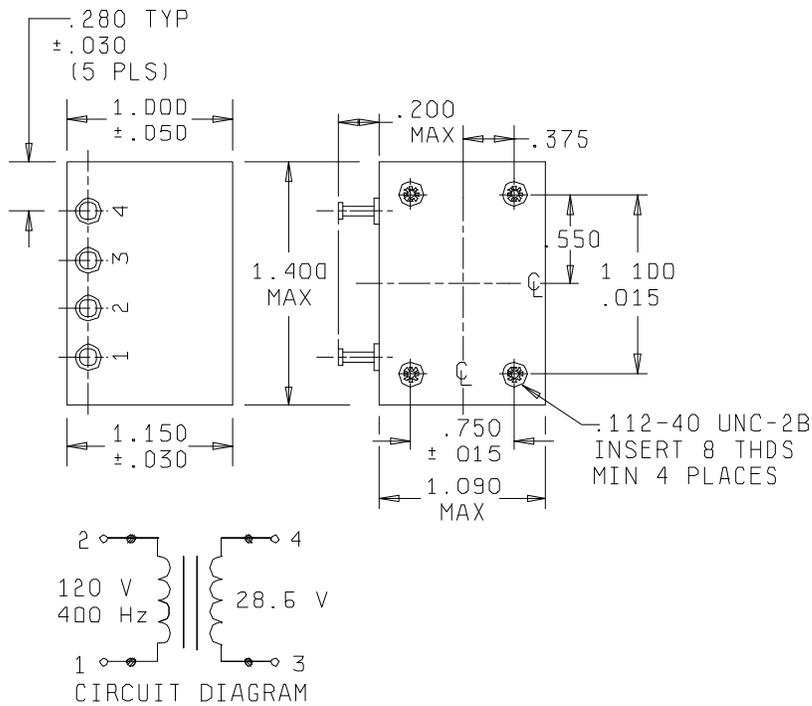
MIL-PRF-27/134A  
 23 April 1979  
 SUPERSEDING  
 MIL-T-27/134  
 10 September 1976

PERFORMANCE SPECIFICATION SHEET

TRANSFORMERS, AUDIO FREQUENCY, SUB-MINIATURE, TF5R21ZZ (A)

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 (to the nearest .01 mm) are given for general information only and are based upon 1 inch = 25.4 mm.
3. Marking shall be on sides of case.

FIGURE 1. Dimensions and configurations.

(A) DENOTES CHANGE

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

Electrical ratings:

Primary voltage:

(1-2): 120 volts, 400 Hz, 12 VA.

Secondary voltage:

(3-4): 28.6 Vrms, 0.385 Arms.

Working voltage: 250 volts.

Design and construction:

Dimensions and configuration: See figure.

Duty cycle: Continuous.

Case: Epoxy, Glass per MIL-P-25421, Type 1, Class 2.

Terminals: Solder, Turret type

Material: Brass, silver-plated.

Height: .200 inches maximum.

Weight: 100 grams.

Altitude: 50,000 feet.

Operating temperature range: -65° to +155°C.

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

Dielectric withstanding voltage:

at sea level: 700 volts rms.

at barometric pressure: 312 volts rms.

Electrical characteristics:

No load: With 120 volts and 400 Hz in (1-2):

Current in (1-2): 20 mA maximum.

Power in (1-2): 2.40 watts maximum.

Voltage across (3-4): 31.5 Vrms  $\pm 2\%$ .

Rated load: With 120 volts and 400 Hz (1-2):

Voltage across (3-4): 28.6 Vrms  $\pm 5\%$ .

Current in (3-4): 0.385 Arms.

DC resistance: (1-2) - 49.5 ohms.

(3-4) - 3.1 ohms.

Polarity: Additive, with terminals 2 and 3 connected.

Temperature rise: 55°C with 120 volts, 400 Hz across (1-2) at an ambient temperature of 100°C.

Vibration: MIL-STD-202, method 204, test condition D.

Marking location: See figure.

Part number: M27/134-1.

Custodians:

Army - ER

Navy - EC

Air Force - 85

Review activities:

Army - AR

Navy - SH, OS

Air Force - 11, 17, 99

DLA - ES

User activities:

Army - ME

Navy - MC, AS,

Air Force - 19

Preparing activity:

Army - ER

Agent:

DLA - ES

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