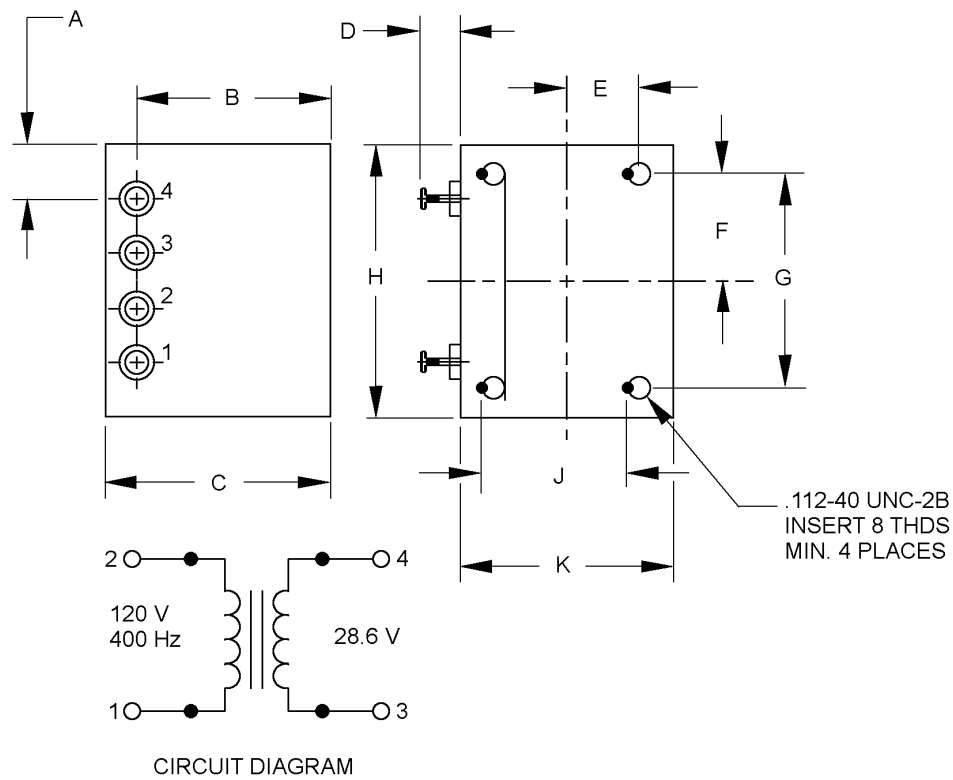


PERFORMANCE SPECIFICATION SHEET

TRANSFORMER, POWER, STEP-DOWN

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

The complete requirements for procuring the product described herein shall
consist of this document and the latest issue of specification [MIL-PRF-27](#).



NOTES:

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

FIGURE 1. Dimensions and configurations .



MIL-PRF-27/134B
w/AMENDMENT 2

Dim	Inches	mm
A	.280 TYP $\pm$.030	7.11 $\pm$.76
B	1.000 $\pm$.050	25.40 $\pm$ 1.27
C	1.150 $\pm$.030	29.21 $\pm$.76
D	.200 Max	5.08 Max
E	.375	9.53
F	.550	13.97
G	1.100 $\pm$.015	27.94 $\pm$.38
H	1.400 Max	35.56 Max
J	.750 $\pm$.015	19.05 $\pm$.38
K	1.090 Max	27.69 Max

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): 120 volts, 400 Hz, 12 VA

Secondary voltage: 28.6 volts.

Working voltage: 250 volts.

Design and construction:

Dimensions and configuration: See figure 1.

Duty cycle: Continuous.

Case: Epoxy, glass in accordance with [MIL-DTL-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°C to +155°C.

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

Dielectric withstanding voltage

At sea level: 700 volts rms.

At reduced 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 V rms $\pm$ 2 percent.

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

Voltage across (3-4): 28.6 V rms $\pm$ 5 percent.

Current in (3-4): 0.385 A rms.

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-202-204](#), test condition D.

Marking location: See figure 1.

Part or Identifying Number (PIN): M27/134-1.

Amendment notations. The margins of this specification are marked with vertical lines to indicate modifications generated by this amendment. 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.

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

MIL-STD-202-204 MIL-STD-202-211 MIL-DTL-25421

Custodians:

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

Preparing activity:
DLA - CC

(Project 5950-2024-014)

Review activities:

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

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 this information above using the ASSIST Online database at <https://assist.dla.mil>