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March 27, 2017

MEMORANDUM FOR MILITARY/INDUSTRY DISTRIBUTION

SUBJECT: Initial Draft of MIL-PRF-27/318C Amendment 1, MIL-PRF-27/319C Amendment 1, MIL-PRF-27/320C Amendment 1, MIL-PRF-27/321C Amendment 1, MIL-PRF-27/322E Amendment 1, MIL-PRF-27/323C Amendment 1, MIL-PRF-27/326C Amendment 1, MIL-PRF-27/328C Amendment 1; Project Numbers 5950-2017-020, -021, -022, -023, -024, -025, -026, -027.

The proposed initial drafts are being amended to add a dimension table to Figure 1 instead of dimensions on the figures. This change will help to expedite further document actions.

The initial draft for the subject documents, dated 27 March 2017, are now available for viewing and downloading from the DLA Land and Maritime-VA Web site:

<http://www.landandmaritimeapps.dla.mil/Programs/MilSpec/initialdrafts.aspx>

Concurrence or comments are required at this Center within 30 days from the date of this letter. Late comments will be held for the next coordination of the document. Any further coordination concerning these documents will be circulated only to firms and organizations that furnish comments or reply that they have an interest. Comments from military departments must be identified as either "Essential" or "Suggested". Essential comments must be justified with supporting data. Military review activities should forward comments to their custodians of this office, as applicable, in sufficient time to allow for consolidating the department reply

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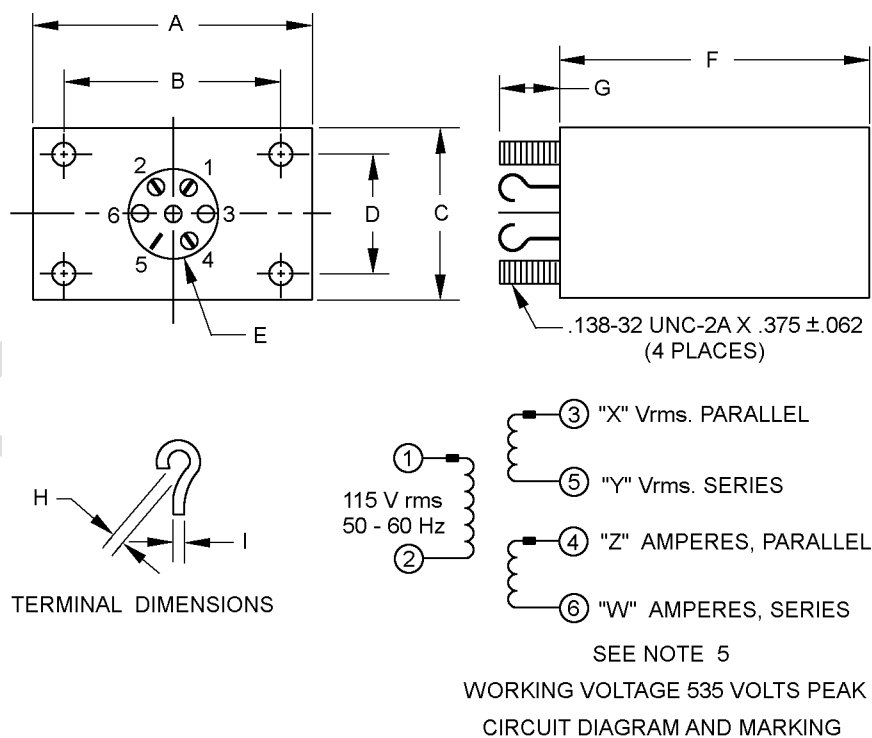
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Chief  
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INCH-POUND

## PERFORMANCE SPECIFICATION SHEET

TRANSFORMERS, POWER, 5 VA, 60 HERTZ

The complete requirements for acquiring the transformer described herein shall consist of this specification and the latest issue of MIL-PRF-27.

FIGURE 1. Dimensions and configurations

MIL-PRF-27/326C  
W/AMENDMENT 1

| Dim | Inches             | mm                 |
|-----|--------------------|--------------------|
| A   | 1.938 +.000, -.125 | 49.23 +.000, -3.18 |
| B   | 1.375 ±.016        | 34.93 ±0.45        |
| C   | 1.812 +.000, -.125 | 46.02 +.000, -3.18 |
| D   | 1.250 ±.016        | 31.75 ±0.45        |
| E   | .875 ±.063         | 22.23 ±1.60        |
| F   | 2.438 +.000, -.188 | 61.93 +.000, -4.78 |
| G   | .375 ±.063         | 9.53 ±1.60         |
| H   | .070 ±.005         | 1.78 ±0.13         |
| I   | .062 ±.005         | 1.57 ±0.13         |

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. Terminal identification shall be as shown on the figure.
4. Electrical values shall be marked as specified in table I, except DCR.
5. For series output connect terminals 4 and 5 together. For parallel output connect pins 3 to 4 and 5 to 6.
6. The mounting surface can be painted.

FIGURE 1. Dimensions and configurations – Continued.

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 V rms, 50 to 65 hertz.

Primary dc resistance: 85 ohms  $\pm$ 25 percent.

Secondary: See table I.

Volt ampere: 5 volt amperes.

Working voltage: 535 volts peak.

Design and construction:

Dimensions and configuration: See figure 1.

Duty cycle: Continuous.

Case: Metal enclosed.

Material: Steel.

Terminals: Solderable hook terminals.

Terminal height:  $0.375 \pm 0.063$  inch.

Terminal diameter:  $0.062 \pm 0.005$  inch.

Weight: 1.2 pounds, maximum.

Operating temperature range:  $-55^{\circ}\text{C}$  to  $+130^{\circ}\text{C}$ .

Altitude: 10,000 feet.

Terminal strength: MIL-STD-202-211, test condition A, 2.0 pounds.

Dielectric withstanding voltage (each winding, secondary winding shall be connected in parallel):

At sea level: 1,500 volts rms.

Electrical characteristics:

Rated load: With 115 volts ac and 60 Hz across (1-2), and rated current in secondary, secondary voltage shall be as specified in table I within  $\pm$ 3 percent.

Regulation: 
$$\frac{\text{Voltage (no load)} - \text{Voltage (rated load)}}{\text{Voltage (rated load)}} \times 100$$

Shall not exceed 12 percent.

Polarity: Additive with terminals 2 and 3 connected and 5 and 4 connected.

MIL-PRF-27/326C  
W/AMENDMENT 1

Temperature rise: 40°C with 115 volts rms, 60 hertz across (1-2) at an ambient temperature of 90°C,

Marking location: See figure 1.

Part or Identification Number (PIN): M27/326-(dash number from table I).

TABLE I. Electrical ratings.

| Dash number | Secondary voltage (series) volts rms | Secondary current (series) amperes (3-6) | Secondary voltage (parallel) volts rms (3-5) | Secondary current (parallel) amperes (3-5) | Secondary dc resistance each winding ohms $\pm 25\%$ |
|-------------|--------------------------------------|------------------------------------------|----------------------------------------------|--------------------------------------------|------------------------------------------------------|
| 01          | 10.0                                 | 0.50                                     | 5.0                                          | 1.00                                       | 0.62                                                 |
| 02          | 12.6                                 | 0.40                                     | 6.3                                          | 0.80                                       | 0.96                                                 |
| 03          | 16.0                                 | 0.31                                     | 8.0                                          | 0.62                                       | 1.52                                                 |
| 04          | 20.0                                 | 0.25                                     | 10.0                                         | 0.50                                       | 2.38                                                 |
| 05          | 24.0                                 | 0.20                                     | 12.0                                         | 0.40                                       | 3.67                                                 |
| 06          | 34.0                                 | 0.15                                     | 17.0                                         | 0.30                                       | 6.40                                                 |
| 07          | 40.0                                 | 0.12                                     | 20.0                                         | 0.24                                       | 9.70                                                 |
| 08          | 56.0                                 | 0.09                                     | 28.0                                         | 0.18                                       | 20.80                                                |
| 09          | 88.0                                 | 0.05                                     | 44.0                                         | 0.10                                       | 41                                                   |
| 10          | 120.0                                | 0.04                                     | 60.0                                         | 0.08                                       | 73                                                   |

VERIFICATION:

Extent of Qualification:

Qualification testing and approval to M27/326-10 and M27/331-08 shall be sufficient to grant qualification approval to MIL-PRF-27/326 through MIL-PRF-27/331 inclusive, all parts.

Qualification testing and approval to M27/326-10 shall be sufficient to grant qualification approval M27/326-01 through M27/326-10.

Referenced documents. In addition to MIL-PRF-27, this document references the following:

MIL-PRF-27/327 MIL-PRF-27/328 MIL-PRF-27/329 MIL-PRF-27/330  
MIL-PRF-27/331 MIL-STD-202-211

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.

Custodians:

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

Preparing activity:  
DLA - CC

(Project 5950-2017-026)

Review activities:

Army – AR, CR4  
Navy - AS, MC, OS  
Air Force - 19, 99

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