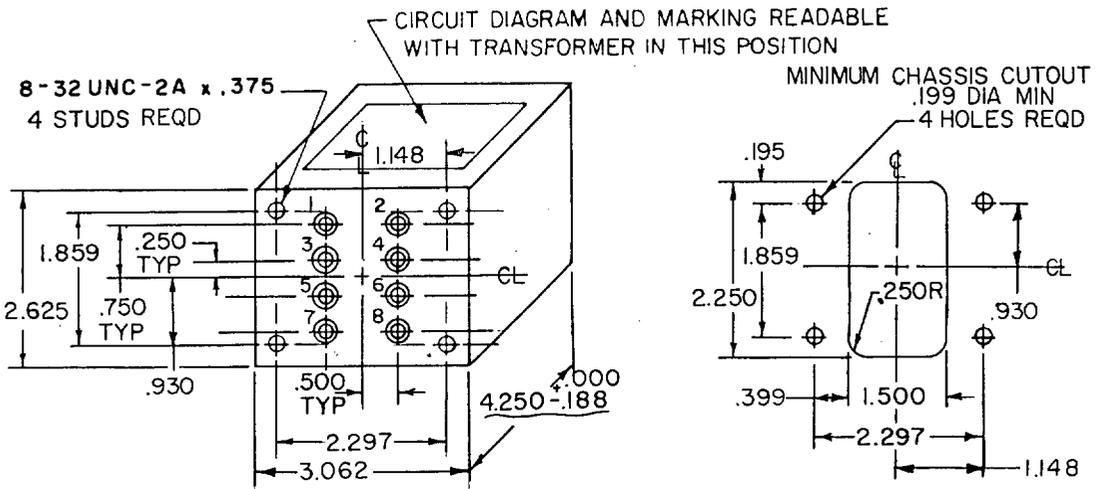


CASE, MOUNTING TERMINAL ARRANGEMENT AND MARKING

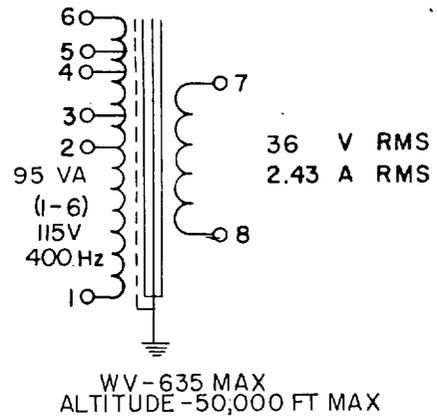
User activities: Army - MI
Navy - MC, CG
Air Force - 19, 14

Review activities: Army - AR
Navy - SH
Air Force - 11, 17



Inches	mm
.188	4.76
.195	4.95
.199	5.05
.250	6.35
.375	9.53
.399	10.13
.500	12.70
.750	19.05
.930	23.62
1.148	29.16
1.500	38.10
1.859	47.23
2.250	57.15
2.297	58.34
2.625	66.68
3.062	77.77
4.250	107.95

CIRCUIT DIAGRAM AND MARKING



THIS MILITARY STANDARD INACTIVE FOR NEW DESIGN AFTER 23 JUNE 1981
NO SUPERSEDING STANDARD

NOTES:

1. All dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerance on case dimensions is $+.000(.00 \text{ mm})$, $-.125(3.18 \text{ mm})$.
4. Tolerance on mounting dimensions is $\pm .016(.41 \text{ mm})$. Mounting studs are symmetrically located with respect to the centerline of the case.
5. Tolerance on terminal position dimensions is $\pm .031(.79 \text{ mm})$. Terminals fit within minimum chassis cutout.
6. Type designation, MS part number, and manufacturer's name or symbol to be marked on side opposite terminals.
7. Referenced document shall be of the issue in effect on date of invitation for bids.
8. This standard takes precedence over document referenced herein.

(F) REDRAWN
denotes changes

MS PART NO.	TYPE DESIGNATION
MS16450-1	TF4RX02HA203

P.A EC Other Cust ER AF-85	International Interest	TITLE TRANSFORMER, POWER, STEP-DOWN, TYPE TF4RX02HA203	MILITARY STANDARD
			MS 16450
Procurement Specification MIL-T-27	SUPERSEDES:		PAGE 1 OF 2

This military standard is approved for use by all Departments and Agencies of the Department of Defense. Selection for all new engineering and design applications and for repetitive use shall be made from this document when applicable.

ELECTRICAL RATING

Primary (1-6): 95 V amp, 115 V rms, 400 Hz
 (Taps are available for increasing secondary full load volts to 38, 40, 42, 44 V)
 Secondary (7-8): 36 V rms, 2.43 amp rms

Duty cycle - - - - - Continuous
 Life expectancy - - - - - 10,000 hours minimum
 Working voltage - - - - - 635 V maximum
 Altitude - - - - - 50,000 feet maximum
 Operating temperature - - - 105°C maximum

NOTES: When numbers in parentheses, e.g. (1-4) are used, they indicate the winding and the extreme terminals of the winding.

PHYSICAL CHARACTERISTICS

Case size - - - - - HA
 Weight - - - - - 4.0 lb maximum
 Terminals - - - - - Turret, standoff type
 Terminal height - - - - - 0.875 (22.22 mm) maximum
 Shock - - - - - Method 1, test condition C (50 G)

TEST ELECTRICAL PROPERTIES LIMITS

TEST	ELECTRICAL PROPERTIES			LIMITS
Dielectric withstanding voltage: At sea level At reduced barometric pressure	Windings	(1-6)	(7-8)	---
	V rms	1,780	1,780	
	V rms	790	790	
No load	With 115 V, 400 Hz across (1-2): Current in (1-2): 0.065 amp Power in (1-2): 6.5 watts Voltage across (7-8): 47 V rms			Maximum Maximum ±2%
Rated load	With 115 V, 400 Hz across (1-5): Voltage across (7-8): 36 V rms, 2.43 amp rms			±2%
Electrostatic shielding	Voltage ratio: 5 to 1 at 20 kHz			Minimum
DC resistance	(1-6): 1.0 ohm (7-8): 0.20 ohm			Maximum
Temperature rise	40°C with 115 V rms, 400 Hz across (1-6) at an ambient temperature of 65°C			Maximum

Quality assurance provisions:

Qualification inspection: Not applicable for this specification.

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

P.A EC	International interest	TITLE	MILITARY STANDARD
Other Cust ER		TRANSFORMER, POWER, STEP-DOWN, TYPE TF4RX02HA203	
AF - 85			MS 16450
Procurement Specification MIL-T-27	SUPERSEDES:		PAGE 2 OF 2

APPROVED 9 JULY 1956 REVISED (F) FOR CHANGES SEE PAGE 2

User activities: Army - MI
Navy - MC, CG
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