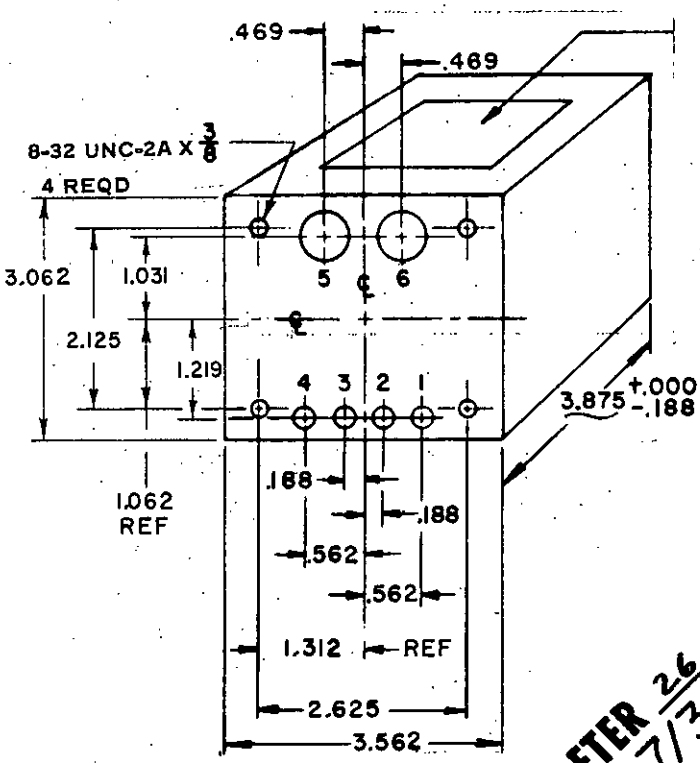
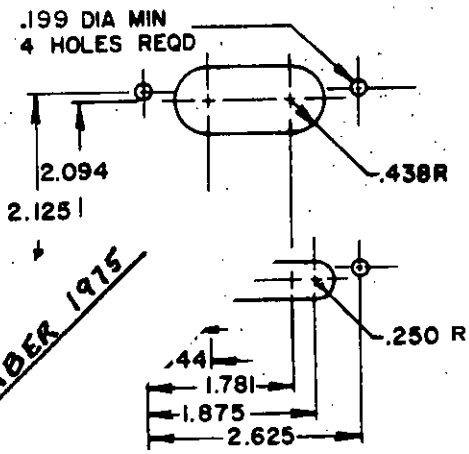
FED. SUP CLASS
5950

CASE, MOUNTING, TERMINAL ARRANGEMENT, AND MARKING



CIRCUIT DIAGRAM AND MARKING READABLE WITH TRANSFORMER IN THIS POSITION (SEE NOTE 5)

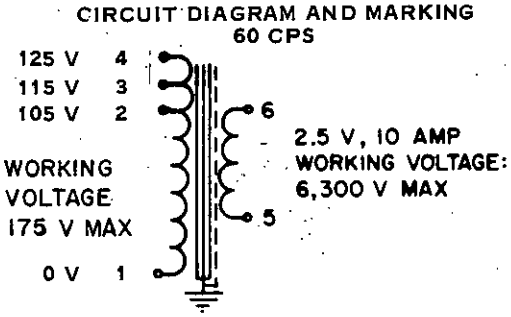
MINIMUM CHASSIS CUTOUT



CANCELLED AFTER 26 NOVEMBER 1975
USE MIL-T-27/34

INCHES	MM	INCHES	MM
.156	3.96	1.2[illegible]	[illegible]
.188	4.78		
.199	5.05		
.250	6.35		
.438	11.13		
.469	11.91	[illegible]	[illegible].98
.562	14.27	[illegible]	66.68
.750	19.05	3.0[illegible]	77.77
.844	21.44	3.562	90.47
1.031	26.19	3.875	98.43
1.062	26.97	3/8	9.53

CIRCUIT DIAGRAM AND MARKING
60 CPS



MAX ALTITUDE: 10,000 FT

NOTES:
1. All dimensions in inches.
2. Unless otherwise specified, tolerance on overall case dimensions is +.000 (.00 mm), −.125 (3.18 mm).
3. Tolerance on mounting dimensions is ±.016 (.41 mm). Mounting studs are symmetrically located with respect to the centerlines of the case.
4. Tolerance on terminal positioning dimensions is ±.125 (3.18 mm). Terminals fit within minimum chassis cutout.
5. Type designation, MS part no. and manufacturer's name or code symbol to be marked on side opposite terminals.
6. Referenced document shall be of the issue in effect on date of invitations for bid.
7. For design feature purposes, this standard takes precedence over procurement document referenced herein.
8. Metric equivalents (to the nearest .01 millimeter) are shown for general information only and are based upon 1 inch = 25.4 mm.

MS PART NO.	MS90024-2

(F) ENTIRE STANDARD REVISED

P.A. EL Other Cust. SH AF-11	TITLE TRANSFORMER, POWER, STEP-DOWN, TYPE TF4RX01JB012	MILITARY STANDARD MS 90024
Procurement Specification MIL-T-27	SUPERSEDES:	SHEET 1 OF 2

APPROVED 2 OCT 1952 REVISED (A) 16 NOV 1953 (B) 9 DEC 1955 (C) 17 DEC 1956 (D) 19 FEB 1960 (E) 21 Sep 65 (F) 26 NOV 1975

FED. SUP CLASS
5950

ELECTRICAL RATING

Primary (1-2-3-4) - - - - -	105/115/125 v; 60 cps, ±10%	Duty cycle - - - - - - - -	Continuous
Secondary (5-6) - - - - - -	2.5 v, 10 amp	Life expectancy - - - - -	10,000 hr min
Working voltage (1-4) - - -	175 v max	Altitude - - - - - - - - - -	10,000 ft max
Working voltage (5-6) - - -	6300 v max	Operating temperature -	105°C max

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

PHYSICAL CHARACTERISTICS

Case size -	JB
Weight -	4-3/4 lb max
Terminals -	Solder lug, No. 16 AWG
Terminal height:	
Terminals 1, 2, 3, 4 - - - - - - - - - - - - - -	.438(11.13 mm) $^{+.000(.00\ mm)}_{-.219(5.56\ mm)}$
Terminals 5, 6 - - - - - - - - - - - - - - - - -	1.250(31.75 mm) $^{+.000(.00\ mm)}_{-.625(15.88\ mm)}$
Shock -	Method I, test condition C (50 G)

TEST	ELECTRICAL PROPERTIES			LIMITS
Dielectric withstanding voltage: At sea level	Windings	(1-4)	(5-6)	---
	Volts rms	1,500	10,000	
No load	With 115 v, 60 cps across (1-3): Current in (1-3): 0.110 amp rms Power in (1-3): 3.6 w Voltage across (5-6): 2.95 v Voltage across (1-2): 105 v Voltage across (1-4): 125 v			 Max Max Max ±1% ±1%
Rated load	Voltage across (5-6): 2.5 v with 115 v, 60 cps across (1-3) and 10.0 amp in (5-6), resistive load			±2%
Electrostatic shielding	Voltage ratio: 5 to 1 at 20 kc			Min
Polarity	Additive, with terminals 4 and 5 connected			---
Temperature rise	40°C with 105 v, 54 cps across (1-2) at an ambient temperature of 65°C			Max

APPROVED 2 OCT 1952 REVISED (A) 16 NOV 1953 (B) 9 DEC 1955 (C) 17 DEC 1956 (D) 19 FEB 1960 (E) SEE SH. I. FOR CHANGES

P.A. EL Other Cust. SH	TITLE TRANSFORMER, POWER, STEP-DOWN, TYPE TF4RX01JB012	MILITARY STANDARD MS 90024
Procurement Specification MIL-T-27	SUPERSEDES:	SHEET 2 OF 2