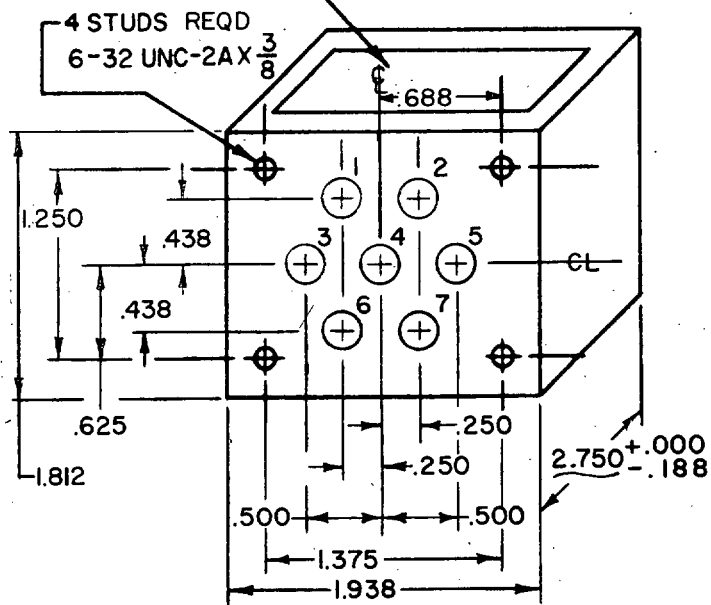
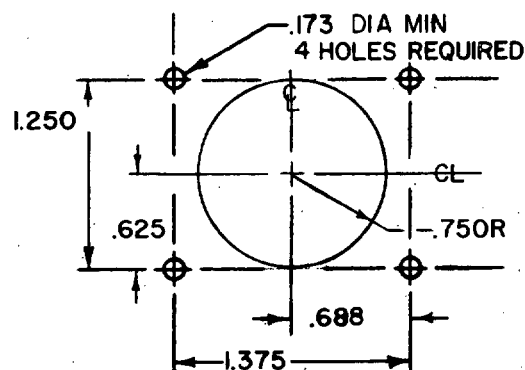


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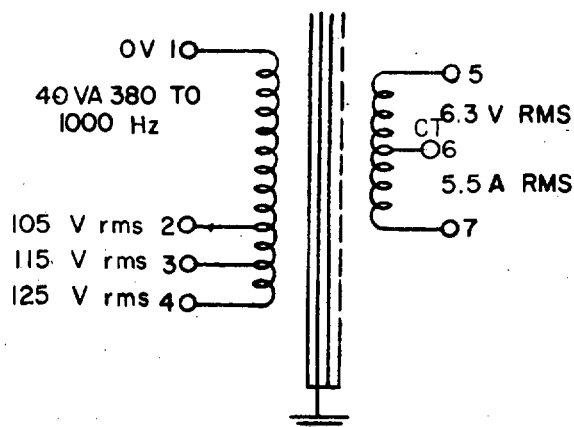
CASE, MOUNTING TERMINAL ARRANGEMENT AND MARKING

CIRCUIT DIAGRAM AND MARKING READABLE
WITH TRANSFORMER IN THIS POSITION

MINIMUM CHASSIS CUTOUT



CIRCUIT DIAGRAM AND MARKING

WV=1070 MAX
ALTITUDE - 50,000 FT MAX

INCHES	MM	INCHES	MM
.173	4.39	.688	17.48
.188	4.78	.750	19.05
.250	6.35	1.250	31.75
3/8	9.53	1.375	34.93
.438	11.13	1.812	46.02
.500	12.70	1.938	49.23
.625	15.88	2.750	69.85

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

NOTES:

1. All dimensions in inches.
2. Metric equivalents are given for general information only and are based upon 1 inch = 25.4 mm.
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.

© denotes changes

MS PART NO.	TYPE DESIGNATION
MS16473-1	TF4SX01EA207

P.A	EC	International interest	TITLE	MILITARY STANDARD
Other Cust	ER		TRANSFORMER, POWER, STEP-DOWN	
	AF-85		TYPE TF4SX01EA207	MS 16473
Procurement Specification			SUPERSEDES:	PAGE 1 OF 2
MIL-T-27				

User activities: Army - MI
Navy - MC, CG
Air Force - 19, 14Review activities: Army - AR
Navy -
Air Force - 11, 17

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.

23 JUNE 1981 (C) 2 JUNE 1982
REVISED (A) 18 MAR 1966 (B)

APPROVED 10 NOV 1956

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ELECTRICAL RATING

Primary (1-2-3-4): 40 v amp, 105/115/125 v rms, 380 to 1,000 Hz
 Secondary (5-6-7): 6.3 v rms ct, 5.5 amp rms

Duty cycle ----- Continuous
 Life expectancy ----- 10,000 hr min
 Working voltage ----- 1,070 v max
 Altitude ----- 50,000 feet max
 Operating temperature ----- 130 °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 ----- EA
 Weight ----- 1.25 lb max
 Terminals ----- Solder lug, standoff type
 Terminal height ----- 0.813 (20.65 mm) max
 Shock ----- Method 1, test condition C (50G)

TEST		ELECTRICAL PROPERTIES			LIMITS
Dielectric withstanding voltage: At sea level At reduced barometric pressure	Windings	(1-4)	(5-7)		--
	Volts rms	2,500	2,500		
	Volts rms	1,340	1,340		
No load	With 105 v, 400 Hz across (1-2): Current in (1-2): 0.12 amp Power in (1-2): 3.0 watts Voltage across (5-7): 6.68 v rms ct				Max Max ±2%
Rated load	With 105/115/125 v, 380 to 1,000 Hz across (1-2-3-4): Voltage across (5-7): 6.3 v rms ct, 5.5 amp rms				--
Electrostatic shielding	Voltage ratio: 5 to 1 at 20 kHz				Min
DC resistance	(1-4): 5.0 ohms (5-7): 0.04 ohm				Max
Temperature rise	40 °C with 105 v rms, 400 Hz across (1-2) at an ambient temperature of 90 °C				Max

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.

REVISED (A) 18 MAR 1966 (B) 23 JUNE 81 (C) FOR CHANGES SEE PAGE 2
 APPROVED 10 NOV 1956

P.A. EC	International Interest	TITLE	MILITARY STANDARD
Other Cust ER AF-85		TRANSFORMER, POWER, STEP-DOWN TYPE TF4SX01EA207	MS 16473
Procurement Specification MIL-T-27	SUPERSEDES:		PAGE 2 OF 2