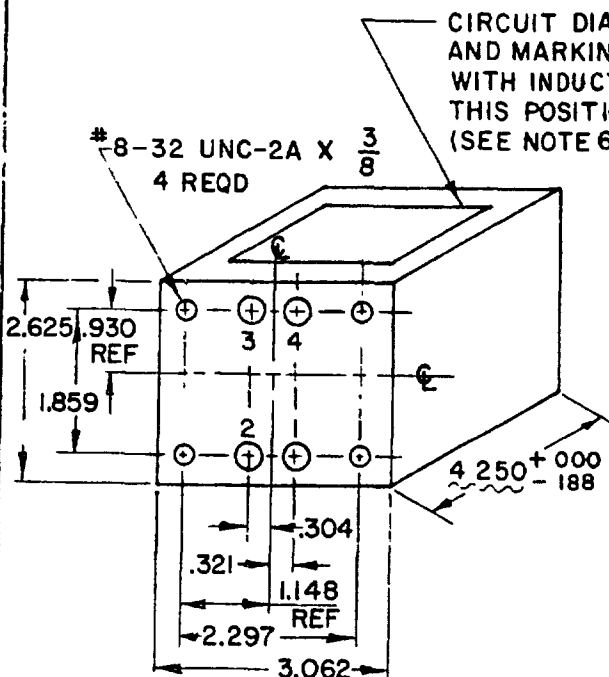


This military standard is approved by the Department of Defense and is mandatory on all activities. Selection for all new engineering and design applications and for repetitive use shall be made from this document.

Review: user information is current as of the date of this document. For future information at change, to this document, draft circulation should be based on the information in the current DODISS (FSC listing) AF 11, 85, 17 @ 19, 14 Army AEL, MU Navy WWP, SH @ MC

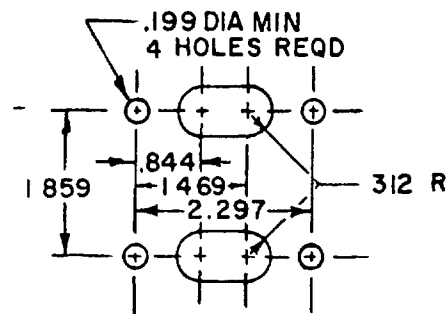
CASE, MOUNTING, TERMINAL ARRANGEMENT, AND MARKING

FED SUP CLASS
5950



INCHES	MM
.188	4.78
.199	5.05
.304	7.72
.312	7.92
.321	8.15
.750	19.05
.844	21.44
.930	23.62
1.148	29.16
1.469	37.31
1.859	47.22
2.297	58.34
2.625	66.68
3.062	77.77
4.250	107.95
3/8	9.53

MINIMUM CHASSIS CUTOUT

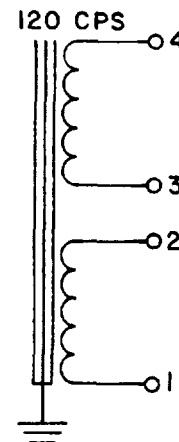


CIRCUIT DIAGRAM AND MARKING

MAX WORKING
VOLTAGE 2,000V

SERIES - 16H
630 V RMS
.125 AMP DC
330 OHMS

PARALLEL - 4H
315 V RMS
.250 AMP DC
82 OHMS



MAX ALTITUDE - 10,000 FT

THIS MILITARY STANDARD INACTIVE FOR NEW DESIGN AFTER 28 MAY 1981
NO SUPERSEDING STANDARD

NOTES

1. All dimensions in inches.
2. Metric equivalents (to the nearest .01 mm) 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 mm), -.125 (3.18 mm).
4. Tolerance on mounting dimensions is $\pm .016$ (.41 mm). Mounting studs are symmetrically located.
5. Tolerance on terminal positioning dimensions is $\pm .125$ (3.18 mm). Terminals fit within minimum chassis cutout.
6. Type designation, MS part no. 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.

© ENTIRE STANDARD REVISED

MS PART NO. MS90013-2

PA Army-ER	TITLE INDUCTOR, POWER, TYPE TF4RX04HA005	MILITARY STANDARD
Other Cust Navy-EC		MS90013
Air Force-85		
Procurement Specification MIL-T-27	SUPERSEDES	PAGE 1 OF 2

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			FED SUP CLASS 5950
ELECTRICAL RATING			
Inductance: (1-4) 16 h min (1-3) and (2-4) 4 h min Current: (1-4)125 amp dc (1-3) and (2-4)250 amp dc Voltage: (1-4) 630 v rms (1-3) and (2-4) 315 v rms Frequency 120 cps, $\pm 10\%$		DC resistance (1-2) 145 ohms, $\pm 10\%$ (3-4) 185 ohms, $\pm 10\%$ Duty cycle Continuous Life expectancy 10,000 hr min Max working voltage (1-4) 2,000 v (3-4) 2,000 v Altitude 10,000 ft max Operating temperature 105° C max	
Note When numbers in parentheses, eg (1-2), are used, they indicate the winding and the extreme terminals of the winding. When the extreme terminals of both windings are used, eg (1-4), the windings are connected in series, ie, terminals 2 and 3 are connected. When the extreme terminal of one winding and the extreme terminal of another winding are used, eg (1-3) and (2-4), the windings are connected in parallel.			
PHYSICAL CHARACTERISTICS			
Case size HA Weight 4-1/4 lb max Terminals Solder lug, No. 18 AWG Terminal height750 (19.05 mm) $\pm .000$, $-.312$ (7.92 mm) Shock Method I, test condition C (50 G)			
TEST	ELECTRICAL PROPERTIES		
Dielectric withstanding voltage At sea level	Windings	(1-2)	(3-4)
	Volts rms	3,800	3,800
DC resistance and resistive unbalance	(1-2) 145 ohms (3-4) 185 ohms Resistive unbalance not applicable		$\pm 10\%$ $\pm 10\%$
	Inductance and inductive unbalance With 50 v, 120 cps, and .125 amp dc applied to (1-4). 16 h With 50 v, 120 cps, and .250 amp dc applied to (1-3) and (2-4) 4 h Inductive unbalance not applicable		Min Min
Polarity	Additive, with terminals 2 and 3 connected		---
Temperature rise	40° C with 630 v, 108 cps, and .125 amp dc applied to (1-4) at an ambient temperature of 65° C		Max
© QUALITY ASSURANCE PROVISIONS: QUALIFICATION INSPECTION: NOT APPLICABLE FOR THIS SPECIFICATION QUALITY CONFORMANCE INSPECTION: GROUP A AND B TESTS OF MIL-T-27 SHALL BE APPLICABLE.			
P A Army-ER Other Cust Navy-EC Air Force-85	TITLE INDUCTOR, POWER, TYPE TF4RX04HA005		MILITARY STANDARD MS90013
Procurement Specification MIL-T-27	SUPERSEDES		PAGE 2 OF 2

APPROVED 9 JUNE 1958 REVISED (A) FOR CHANGES SEE PG 1 (B) FOR CHANGES SEE PG 2 (C) SEE PG 2 FOR CHANGES 20 MAY 1982