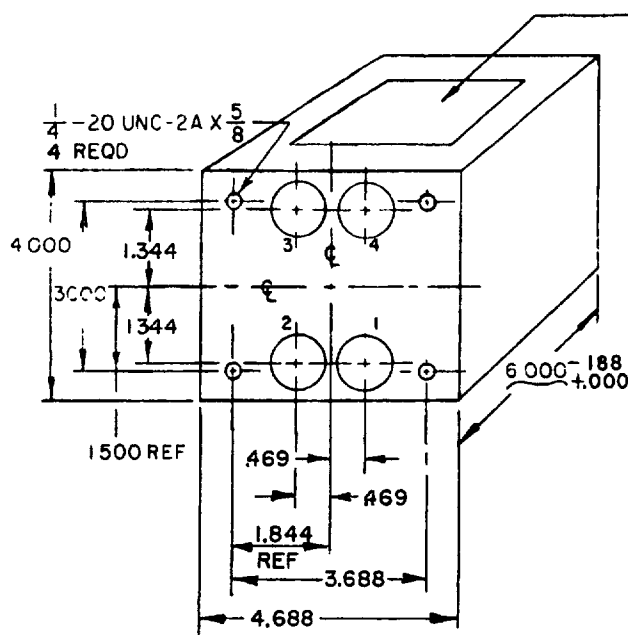


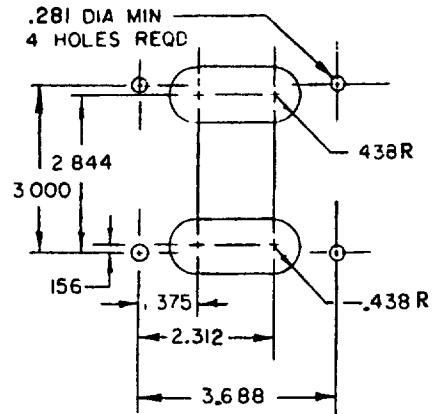
Reviewer user information is current as of the date of this document. For future coordination of changes to this document, draft circulation should be based on the information in the current DODISS (FSC listing) AF 11, B5, 17 @ 19, 14 Army EL, MU Navy WP, SH @ MC

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.

CASE, MOUNTING, TERMINAL ARRANGEMENT, AND MARKING

FED SUP CLASS
5950CIRCUIT DIAGRAM AND MARKING
READABLE WITH INDUCTOR
IN THIS POSITION (SEE NOTE 5)

MINIMUM CHASSIS CUTOUT

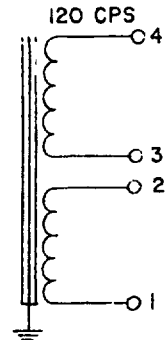


CIRCUIT DIAGRAM AND MARKING

WORKING VOLTAGE 3,500 V MAX

SERIES 25 H
1,000 V RMS
200 AMP DC
210 OHMS

PARALLEL 6.25 H
500 V RMS
400 AMP DC
52 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. Unless otherwise specified, tolerance on overall case dimensions is $\pm .000$ (.00 mm), $-.125$ (3.18 mm).
3. Tolerance on mounting dimensions is $\pm .047$ (1.19 mm). Mounting studs are symmetrically located with respect to the centerlines of the case.
4. Tolerance on terminal positioning dimensions is $\pm .125$ (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 mm) are shown for general information only and are based upon 1 inch = 25.4 mm.

① ENTIRE STANDARD REVISED

MS PART NO. MS75001-2

P A Other Cust Navy - EC Air Force - 85	TITLE INDUCTOR, POWER, TYPE TF4RXO4MAOIO	MILITARY STANDARD
		MS 75001
Procurement Specification MIL-T-27	SUPERSEDES	PAGE 1 OF 2

DD FORM 672
25 OCT 63

(Coordinated) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

5950-0604-1

APPROVED 9 JUNE 1958 REVISED (A) 29 NOV 1960 (B) 21 September 1965 (C) 28 MAY 1981 (D) 20 MAY 1982

Reviewer, user information is current as of the date of this document For future coordination of changes to this document, draft circulation should be based on the information in the current DODISS (FSC listing) Navy AF WP; SH @ MC

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AFR11, 85, 17 @ 19, 14 Army AF EL, MU

					FED SUP CLASS 5950
ELECTRICAL RATING					
Inductance: (1-4) 25 h min (1-3) and (2-4) 6.25 h min Current: (1-4)200 amp dc (1-3) and (2-4)400 amp dc Voltage: (1-4) 1,000 v rms (1-3) and (2-4) 500 v rms Frequency 120 cps, $\pm 10\%$			DC resistance (1-2) 90 ohms, $\pm 10\%$ (3-4) 120 ohms, $\pm 10\%$ Duty cycle Continuous Life expectancy 10,000 hr min Working voltage (1-4) 3,500 v max (1-3) and (2-4) 3,500 v max Altitude 10,000 ft max Operating temperature 105° C max		
<p>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.</p>					
PHYSICAL CHARACTERISTICS					
Case size MA Weight 20 lb max Terminals Solder lug, No. 18 AWG Terminal height 1.625 (41.28 mm) $^{+.000}_{-.688}$ (17.48 mm) Shock Method I, test condition C (50 G)					
TEST		ELECTRICAL PROPERTIES			LIMITS
Dielectric withstanding voltage: At sea level	Windings	(1-4)	(1-3)	(2-4)	---
	Volts rms	5, 900	5, 900	5, 900	
DC resistance and resistive unbalance	(1-2) 90 ohms (3-4): 120 ohms Resistive unbalance not applicable				$\pm 10\%$ $\pm 10\%$
Inductance and inductive unbalance	With 50 v, 120 cps, and .200 amp dc applied to (1-4) 25 h With 50 v, 120 cps, and .400 amp dc applied to (1-3) and (2-4) 6.25 h Inductive unbalance not applicable				Min Min
Polarity	Additive, with terminals 2 and 3 connected				---
Temperature rise	40° C with 1,000 v, 108 cps, and .200 amp dc applied to (1-4) at an ambient temperature of 65° C				Max
QUALITY ASSURANCE PROVISIONS. (D) 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	TITLE			MILITARY STANDARD	
Other Cust Navy - EC	INDUCTOR, POWER,				
Air Force - 85	TYPE TF4RX04MAOIO			MS 7500I	
Procurement Specification MIL-T-27	SUPERSEDES			PAGE 2 OF 2	

APPROVED 9 JUNE 1958 REVISED (A) 29 NOV 1960 (B) SEE PG 1 FOR CHANGES (C) SEE PG 2 FOR CHANGES 20 MAY 1982