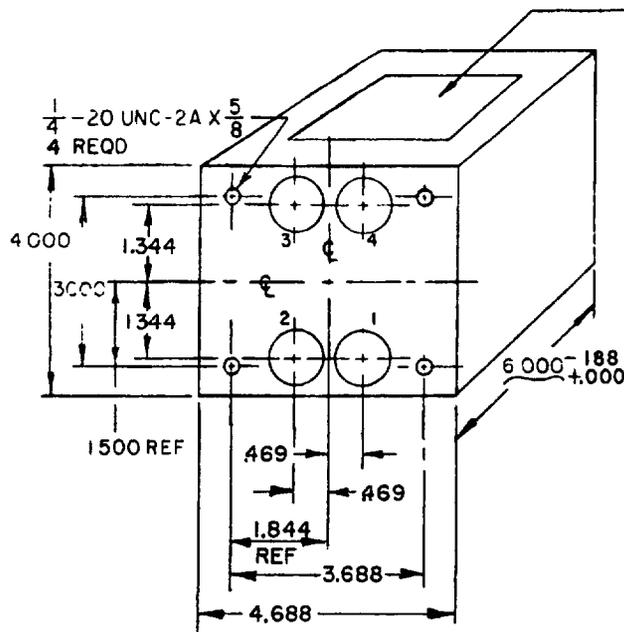
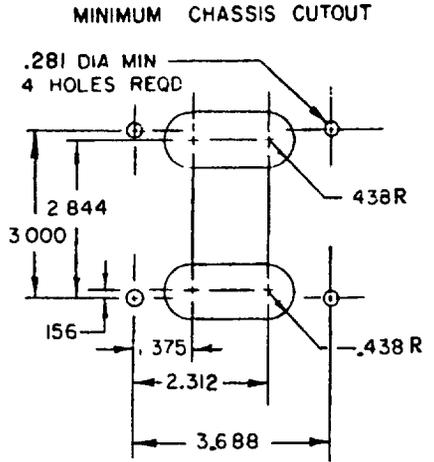


CASE, MOUNTING, TERMINAL ARRANGEMENT, AND MARKING



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

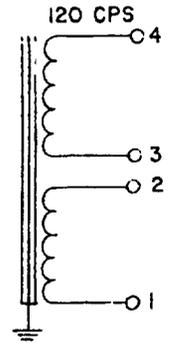


CIRCUIT DIAGRAM AND MARKING

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

INCHES	MM	INCHES	MM
.156	3.96	2.312	58.72
.188	4.78	2.844	72.24
.281	7.14	3.000	76.20
.438	11.13	3.688	93.68
.469	11.91	4.000	101.60
1.344	34.14	4.688	119.08
1.375	34.93	6.000	152.40
1.500	38.10	5/8	15.88
1.844	46.84		

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

NOTES

- All dimensions in inches.
- Unless otherwise specified, tolerance on overall case dimensions is  $\pm .000$  (.00 mm),  $-.125$  (3.18 mm).
- Tolerance on mounting dimensions is  $\pm .047$  (1.19 mm). Mounting studs are symmetrically located with respect to the centerlines of the case.
- Tolerance on terminal positioning dimensions is  $\pm .125$  (3.18 mm). Terminals fit within minimum chassis cutout.
- Type designation, MS part no. and manufacturer's name or code symbol to be marked on side opposite terminals.
- Referenced document shall be of the issue in effect on date of invitations for bid.
- For design feature purposes, this standard takes precedence over procurement document referenced herein.
- Metric equivalents (to the nearest .01 mm) are shown for general information only and are based upon 1 inch = 25.4 mm.

Ⓧ ENTIRE STANDARD REVISED

MS PART NO. MS75001-2

P A Army-ER Other Cust Navy-EC Air Force-85	TITLE	INDUCTOR, POWER, TYPE TF4RXO4MAIO	MILITARY STANDARD
			MS 75001
Procurement Specification MIL-T-27	SUPERSEDES		PAGE 1 OF 2

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.

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 DOD/ISS (FSC listing) Navy W WP; SH @ MC  
 AF R11, 85, 17 @ 19, 14 Army W EL, MU  
 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.

FED SUP CLASS  
5950

**ELECTRICAL RATING**

<b>Inductance:</b>		<b>DC resistance</b>
(1-4) -----	.25 h min	(1-2) -----
(1-3) and (2-4) -----	6.25 h min	(3-4) -----
<b>Current:</b>		<b>Duty cycle</b> -----
(1-4) -----	.200 amp dc	Continuous
(1-3) and (2-4) -----	.400 amp dc	<b>Life expectancy</b> -----
<b>Voltage:</b>		10,000 hr min
(1-4) -----	1,000 v rms	<b>Working voltage</b>
(1-3) and (2-4) -----	500 v rms	(1-4) -----
<b>Frequency</b> -----	120 cps, ±10%	(1-3) and (2-4) -----
		3,500 v max
		3,500 v max
		<b>Altitude</b> -----
		10,000 ft max
		<b>Operating temperature</b> -----
		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 -----	MA
Weight -----	20 lb max
Terminals -----	Solder lug, No. 18 AWG
Terminal height -----	1.625 (41.28 mm) <sup>+0.000</sup>
	-.688 (17.48 mm)
Shock -----	Method I, test condition C (50 G)

TEST	ELECTRICAL PROPERTIES				LIMITS
	Windings	(1-4)	(1-3)	(2-4)	
Dielectric withstanding voltage: At sea level	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				±10% ±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
(D) 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	TITLE	MILITARY STANDARD
Other Cust Navy - EC	INDUCTOR, POWER,	MS 75001
Air Force - 85	TYPE TF4RXO4MAOIO	
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