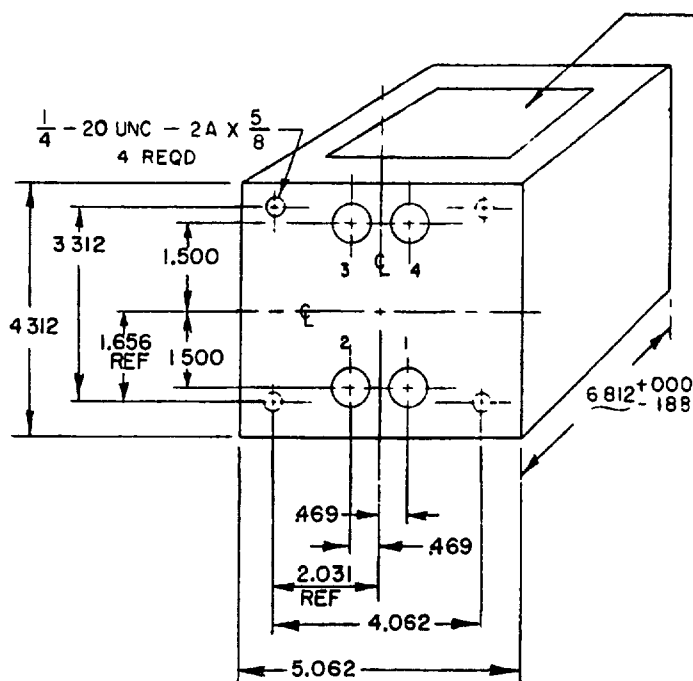


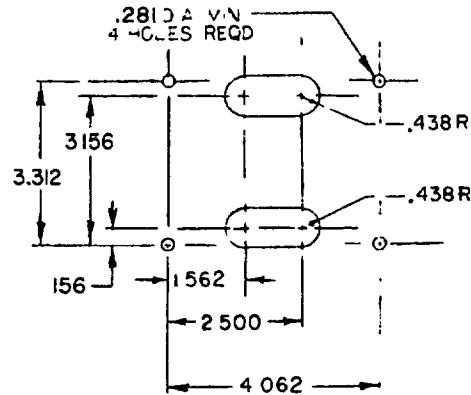
Reviewer/user information is current as of the date of this document. For future coordination of changes to this document, draft circulation should be based on the information in the current DODISS (FSC listing) AF 11, 85, 17 @ 19, 14 Army XEL, MU Navy XWP, SH @ MC

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

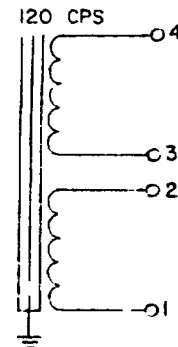


CIRCUIT DIAGRAM AND MARKING

WORKING VOLTAGE 3,500 V MA

SERIES 16 H  
1,000 V RMS  
315 AMP DC  
105 OHMS

PARALLEL 4 H  
500 V RMS  
.630 AMP DC  
25 OHMS



MAX ALTITUDE 10,000 FT

INCHES	MM	INCHES	MM
.156	3.96	2.500	63.50
.188	4.78	3.156	80.16
.281	7.14	3.312	84.12
.438	11.13	4.062	103.17
.469	11.91	4.312	109.52
1.500	38.10	5.062	128.57
1.562	39.67	6.812	173.02
1.656	42.06	5/8	15.88
2.031	51.59		

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.

D ENTIRE STANDARD REVISED

MS PART NO. MS75002-2

PA Army-ER Other Cust Navy-EC Air Force-85	TITLE INDUCTOR, POWER, TYPE TF4RX04NA012	MILITARY STANDARD <b>MS 75002</b>
Procurement Specification MIL-T-27	SUPERSEDES	PAGE 1 OF 2

DD FORM 672  
25 OCT 63

(Coordinated) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

5950-0604-2

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) AF II 11, 85, 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

FED SUP CLASS 5950					
<b>ELECTRICAL RATING</b>					
<b>Inductance:</b> (1-4) ..... 16 h min (1-3) and (2-4) ..... 4 h min <b>Current:</b> (1-4) ..... .315 amp dc (1-3) and (2-4) ..... .630 amp dc <b>Voltage:</b> (1-4) ..... 1,000 v rms (1-3) and (2-4) ..... 500 v rms <b>Frequency</b> ..... 120 cps, $\pm 10\%$		<b>DC resistance</b> (1-2) ..... 45 ohms, $\pm 10\%$ (3-4) ..... 60 ohms, $\pm 10\%$ <b>Duty cycle</b> ..... Continuous <b>Life expectancy</b> ..... 10,000 hr min <b>Working voltage</b> (1-4) ..... 3,500 v max (1-3) and (2-4) ..... 3,500 v max <b>Altitude</b> ..... 10,000 ft max <b>Operating temperature</b> ..... 105° C max			
<b>Note.</b> 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.					
<b>PHYSICAL CHARACTERISTICS</b>					
Case size ..... NA Weight ..... 30 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)					
<b>TEST</b>	<b>ELECTRICAL PROPERTIES</b>				<b>LIMITS</b>
<b>Dielectric withstanding voltage:</b> At sea level	Windings	(1-4)	(1-3)	(2-4)	...
	Volts rms	5,900	5,900	5,900	
<b>DC resistance and resistive unbalance</b>	(1-2): 45 ohms (3-4): 60 ohms Resistive unbalance not applicable				$\pm 10\%$ $\pm 10\%$
<b>Inductance and inductive unbalance</b>	With 50 v, 120 cps, and .315 amp dc applied to (1-4) 16 h With 50 v, 120 cps, and .630 amp dc applied to (1-3) and (2-4) 4 h Inductive unbalance not applicable				Min Min
<b>Polarity</b>	Additive, with terminals 2 and 3 connected				...
<b>Temperature rise</b>	40° C with 1,000 v, 108 cps, and .315 amp dc applied to (1-4) at an ambient temperature of 65° C				Max
<b>QUALITY ASSURANCE PROVISIONS:</b> QUALIFICATION INSPECTION: NOT APPLICABLE FOR THIS SPECIFICATION. QUALITY CONFORMANCE INSPECTION: GROUP A AND B TESTS OF MIL-T-27 SHALL BE APPLICABLE.					
<b>P.A</b> Army-ER Other Cust Navy - EC Air Force-85	<b>TITLE</b> INDUCTOR, POWER, TYPE TF4RX04NAOI2			<b>MILITARY STANDARD</b>  <b>MS 75002</b>	
<b>Procurement Specification</b> MIL-T-27	<b>SUPERSEDES:</b>			<b>PAGE 2 OF 2</b>	

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