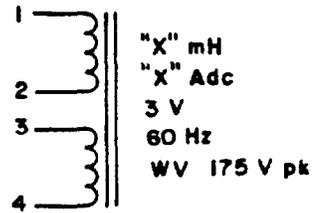
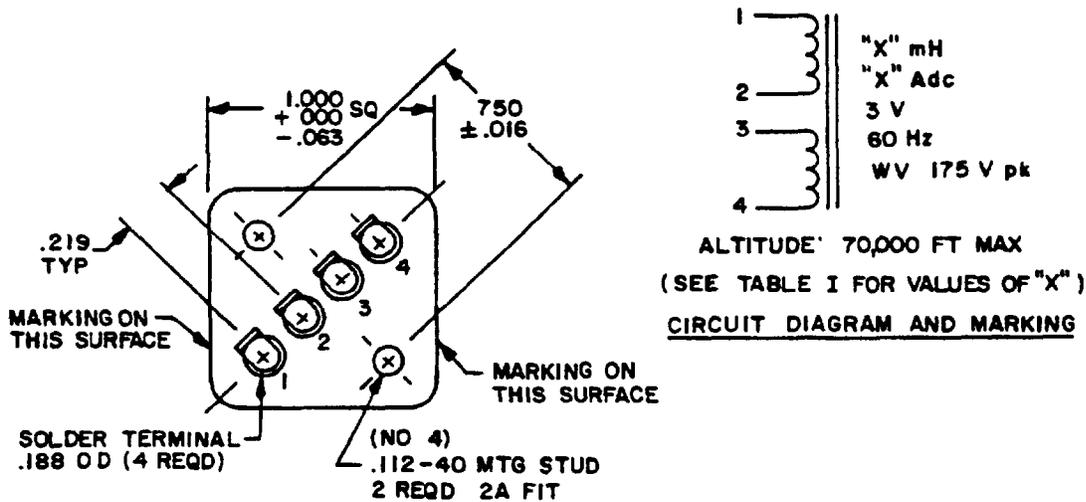


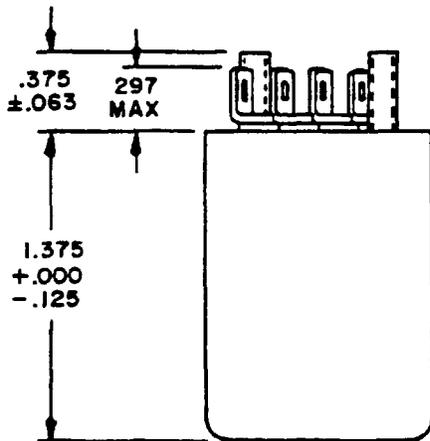
MILITARY SPECIFICATION SHEET
 TRANSFORMERS AND INDUCTORS
 (AUDIO, POWER AND HIGH-POWER PULSE),
 INDUCTOR, POWER, TF4S04AG

This specification is approved for use by all Departments and Agencies of the Department of Defense.

The requirements for acquiring the inductor described herein shall consist of this specification and the latest issue of MIL-T-27.



ALTITUDE: 70,000 FT MAX
 (SEE TABLE I FOR VALUES OF "X")
CIRCUIT DIAGRAM AND MARKING



Inches	mm
.016	0.41
.063	1.60
.112	2.84
.125	3.18
.188	4.78
.219	5.56
.297	7.54
.375	9.52
.750	19.05
1.000	25.40
1.375	34.92

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Marking shall be on the sides of the case.

FIGURE 1. Dimensions and configuration.

Ⓒ denotes changes

REQUIREMENTS (When numbers in parentheses, e.g. (1-2) are used, they indicate the winding and the extreme terminals of the winding. When the extreme terminals of both windings are used, e.g. (1-4), the windings are connected in series, i.e. terminals 2 and 3 are connected. When the extreme terminal of one winding and the extreme terminal of another winding are used, e.g. (1-3) and (2-4), the windings are connected in parallel.)

Electrical ratings:

Inductance (series) (parallel). See table I.

Current (series) (parallel): See table I.

Voltage (series): 3 volts rms, 60 Hz, (parallel) 1.5 volts rms, 60 Hz.

DC resistance (1-2): 0.52 ohm.

(3-4): 0.68 ohm.

Working voltage: 175 volts peak.

Design and construction:

Dimensions and configuration: See figure 1.

Case. Metal encased.

Size: AG.

Material: CRS.

Terminals Solder type, glass to metal seal.

Ⓒ Weight: 0.2 pound, maximum.

Operating temperature range: -55°C to +130°C.

Altitude: 70,000 feet, maximum.

Terminal strength: MIL-STD-202, method 211, test condition A, 5 pounds.

Dielectric withstanding voltage

At sea level: 500 V rms.

At reduced barometric pressure: 300 V rms.

Temperature rise 45°C at rated power at an ambient temperature of 85°C.

Vibration, high frequency MIL-STD-202, method 204.

TABLE I. Electrical ratings.

Ⓒ

Dash number	Current <u>2/</u> (series connected) A dc	Inductance <u>2/</u> (series connected) mH	Current <u>2/</u> (parallel connected) A dc	Inductance <u>3/</u> (parallel connected) mH
-01	75	9	1.5	2.25
	.35	18	7	4.5
	075	40	.15	10
	035	45	.07	11.25

1/ Dash numbers -02 through -08 have been canceled without replacement

2/ Split winding in series.

3/ Split winding in parallel

Ⓒ

Marking location: See figure 1.

Part number: M27/171-01.

Custodians:

Army - ER
Navy - EC
Air Force - 85

Review activities:

Army - AR
Navy - YD
DLA - ES

User activities:

Army - ME
Navy - MC
Air Force - 11, 19

Preparing activity:

Army - ER

Agent:

DLA - ES

(Project 5950-0694-01)