

MILITARY SPECIFICATION SHEET

TRANSFORMER, POWER, STEP-UP, STEP-DOWN

The complete requirements for procuring the transformers herein shall consist of this document and the issue in effect of MIL-T-83720.

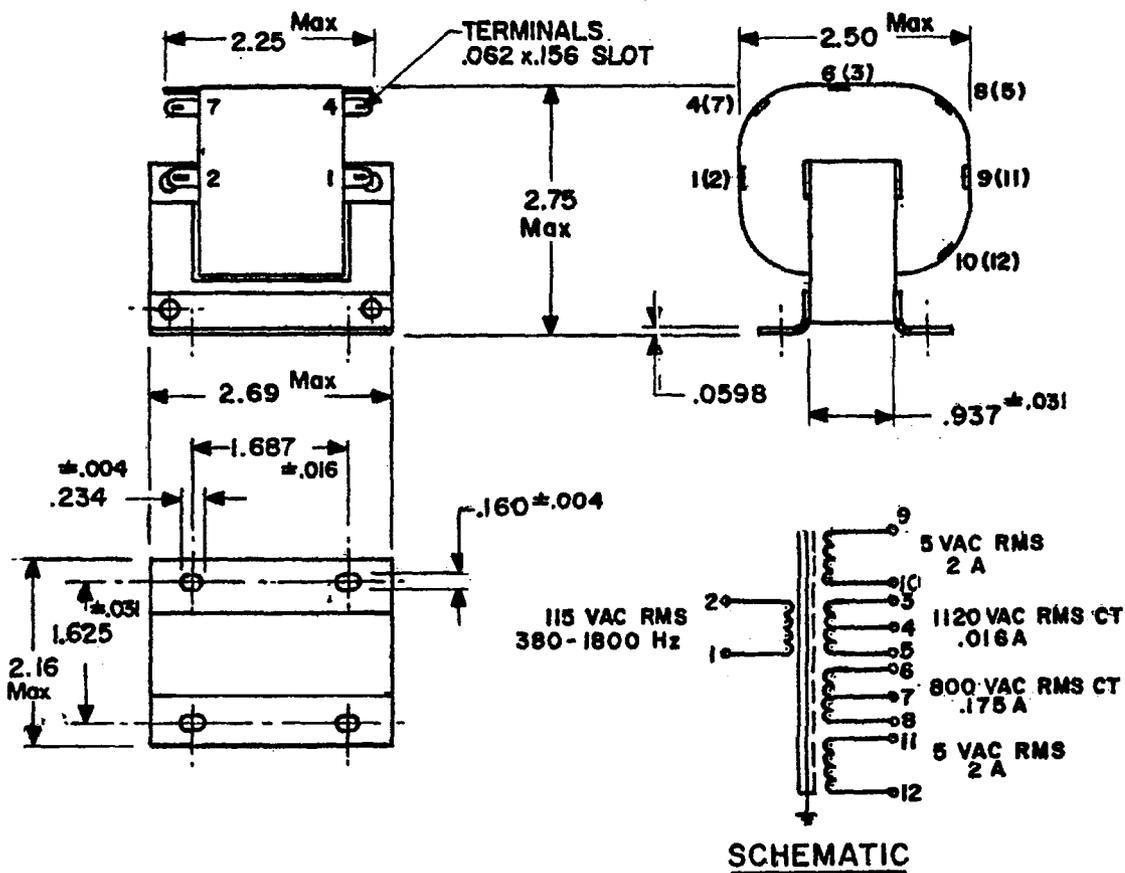


Figure 1

REQUIREMENTS.

Mechanical and Environmental Requirements.

Dimensions and Configuration:	See Figure 1.
Vibration:	Test Condition A, Method 204.
Shock:	Test Condition C, Method 205.
Altitude:	10,000 feet.
Ambient Temperature Range:	-54°C to 85°C.
Maximum Operating Temperature:	170°C.
Temperature Rise:	80° maximum.
Weight:	1.12 nominal.
Terminal:	Solder type.

Electrical Ratings.

Working Voltage:	Primary 350 VAC rms; Secondary 1400 VAC rms.
Electrostatic Shield:	Min. Voltage Ratio 5:1 at 20 Hz.
Life:	10,000 hours.
Polarity:	Dot on schematic indicates positive sense.
Rating:	190 VA maximum for temperature rise of 80°C.
Duty:	Continuous.

Primary.

Phase:	Single.
Voltage:	115 V rms.
Frequency:	400-1800 Hz $\pm$ 20 Hz.
<u>Other Electrical Ratings:</u>	See Table 1.

TABLE I.

Winding	Full Load Secondary Volts RMS at 115V ac Input	Rated Secondary Amps RMS at Full Load	Dielectric Test Voltage (RMS) at Sea Level
(1-2)			1500
(3-5)	1120 CT $\pm$ 4%	.016	3000
(6-8)	800 CT $\pm$ 4%	.124	2600
(9-10)	5V $\pm$ 2%	2.0	3000
(11-12)	5V $\pm$ 2%	2.0	2600
Shield to windings			3000

NOTE: When numbers are used in parenthesis, e.g. (1-2), they indicate the winding and the extreme terminals of the winding.

NOTE: Winding (3-5), (6-8) are part of a full wave rectifier circuit with 50 Hy and 5 Hy inductive input filters respectively. Windings (9-10), (11-12) supply filament voltage to 5R4G7 rectifier tubes.

Part Number: Consists of the basic number of this specification sheet and a dash number.

Example: Part Number.  
M83720/13-01

Custodian:  
Air Force - 85

Preparing Activity:  
Air Force - 85

Review Activities:  
Air Force - 11, 84

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