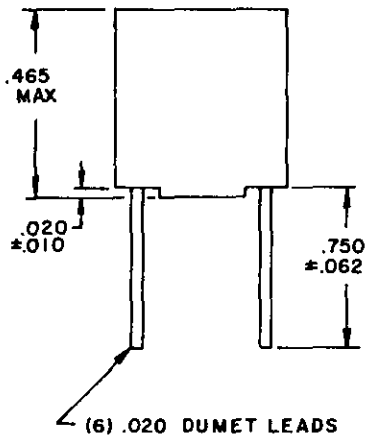
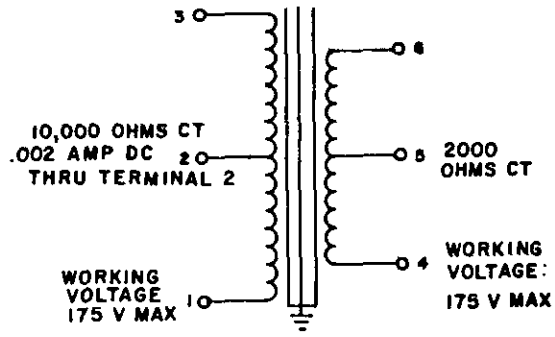
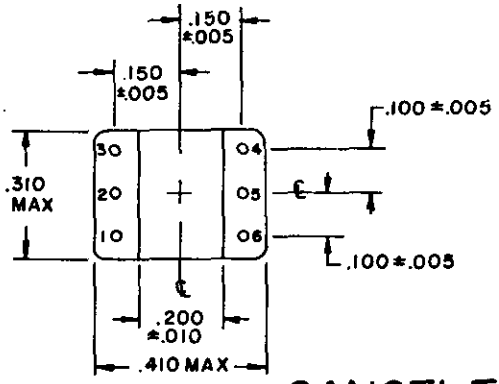
FED. SUP CLASS
5950





300 Hz TO 100 kHz
POWER LEVEL: 50 mW, MAX
MAX ALTITUDE: 10,000 FEET



CIRCUIT DIAGRAM AND MARKING

INCHES	MM
.005	.13
.010	.25
.020	.51
.062	1.57
.100	2.54
.150	3.81
.310	7.87
.410	10.41
.465	11.81
.750	19.05

Ⓐ CANCELED AFTER 14 AUG 79
USE MIL-T-27/242

NOTES:
1. Dimensions are in inches.
2. Metric equivalents (to the nearest .01 mm) are shown for general information only and are based upon 1 inch = 25.4 mm.
3. Type designation, MS part no. and manufacturer's name or code symbol to be marked on side opposite terminal.
4. Referenced document shall be of the issue in effect on date of invitations for bid.
5. For design feature purposes, this standard takes precedence over procurement document referenced herein.

Ⓐ DENOTES CHANGES

APPROVED 10 JAN 1973 REVISED Ⓐ 14 AUG 79

P.A. AF-85 1 Other Cus' 80	International Interest	TITLE TRANSFORMER, AUDIO FREQUENCY, TYPE TF5QX12ZZ	MILITARY STANDARD MS 21372 (USAF)
Procurement Specification MIL-T-27		SUPERSEDES:	SHEET 1 OF 2

DD FORM 1 SEP 63 672

LIMITED COORDINATION

5950-F188-1

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ELECTRICAL RATING			
Source impedance (1-3)	10,000 ohms ct	Frequency range	300Hz to 100kHz ± 2dB
Load impedance (4-6)	2,000 ohms ct	Power level	50 mw max
Primary current	.001 amp dc through terminal 2 .001 amp dc max unbalance	Duty cycle	continuous
		Life expectancy	10,000 hr min
		Working voltage (1-3)	175 v max
		(4-6)	175 v max
		Altitude	10,000 ft max
		Operating temperature	85°C max

NOTE:
When numbers in parentheses, eg (1-3), are used, they indicate the winding and the extreme terminals of the winding. When the extreme terminals of two windings are used, eg (4-7), the windings are connected in series, ie, terminals 5 and 6 are connected.

PHYSICAL CHARACTERISTICS

Weight	3.18 grams max
Terminals	.020 Gold Plated Dumet
Terminal length	.75 in. long
Shock (specified pulse)	MIL-STD-202, Method 213, test condition I

TEST	ELECTRICAL PROPERTIES				LIMITS
Dielectric withstanding voltage:	Windings	(1-3)	(4-6)		
At sea level	Volts rms	500	500		- - -
At reduced barometric pressure	Volts rms	- -	- -		- - -
No load (center-tap (ct) voltage unbalance only)	With 2V, 1000 Hz across (1-3) and .002 amp dc through terminal 2; Unbalance (4-5) and (5-6): 1% Unbalance (1-2) and (2-3): 1%				Max Max
Harmonic distortion	Total harmonic content of output: 25% with 20V 300Hz across (1-3) and .002amp dc through terminal 2.				Max
Primary impedance	(1-3); 10,000ohms ct with approx 20V, 1000Hz across (1-3) and .002amp dc through terminal 2 and 2000 ohms ct across (4-6)				±15%
Frequency response	Zs = 10,000 ohms ct (1-3); ZL = 2000ohms ct (4-6) Es = 40 volts; reference frequency = 1000Hz frequency range is 300Hz to 100 kHz				±2dB
Insertion loss	2dB with 20V, 1000 Hz across (1-3)				Max
Resonance	Second resonant frequency: 500 kHz				Min
Polarity	Additive, with terminals 3 and 4 connected				- - -

P.A. AF-85 Other Cust	International interest	TITLE TRANSFORMER, AUDIO FREQUENCY, TYPE TF5QX12ZZ	MILITARY STANDARD MS 21372 (USAF)
Procurement Specification MIL-T-27		SUPERSEDES:	SHEET 2 OF 2

DD FORM 1 SEP 63 672

LIMITED COORDINATION

APPROVED 10 Jan 78 REVISED (A) FOR CHANGES SEE PAGE 1

Review Activity: AF - 99

This standard has been approved by the Directorate of Electronic Support (AFALD/PTS) Department of the AF and is mandatory for use by that activity. All other military activities are required to employ this standard where suitable.