



**HAMMOND
MANUFACTURING®**

Hammond Mfg. Co. Ltd., Electronics Division

www.hammondmfg.com

117F2

70 V LINE AUDIO TRANSFORMER

- Couple 8ohm speakers to 70volt line outputs of amplifiers.
- Up to 4 power tap levels available
- Primary taps marked in watts (no calculation necessary), to match speaker power.
- Frequency response 100Hz. to 10Khz. (-2 db. reference @1 Khz.)
- Distortion is less than 2.5% @ 100 Hz. at maximum power.
- All models have solder lugs, also suitable for slip on jumper connections.
- Total power requirements of speakers should not exceed the rated power of each transformer or rated power of the amplifier.

ELECTRICAL SPECIFICATIONS

Characteristics	Typical
System Voltage	70V
Power Rating	2 Watts
Insertion Loss	<2dB
DCR	
COM - ¼ W	328Ω TYP
Input	0.51Ω TYP
INDUCTANCE/IMPEDANCE	@1.0 KHz, 1V OC
COM - ¼W	7.15H / 42.2KΩ
COM - ½W	3.74H / 22.0KΩ
COM-1W	2.02H / 11.66KΩ
COM-2W	1.15H / 6.42KΩ
Input	7.69mH / 33.54Ω
LEAKAGE INDUCTANCE	@1.0 KHz, 1V SC
¼W/ 8W	759mH / 105mH
Dielectric Strength	500VRMS
Temperature Range	-40 To 105°C

TEST CONDITIONS

Measurement instruments:

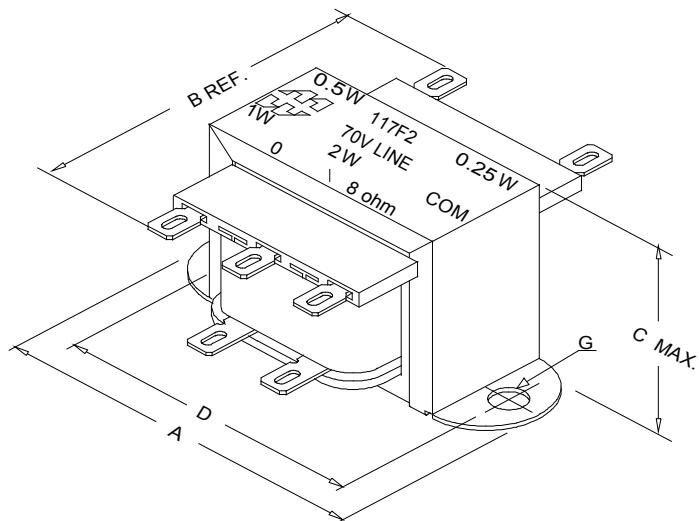
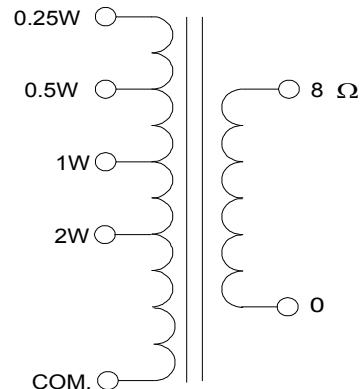
D scope series iii audio analyzer
Wayne Kerr 3255B with a 3265B

Keithley 2010 DVM
Hp4192a impedance analyzer

* All graphs input level 27dBm @1.0KHz reference.

**The results are typical and are subject to normal manufacturing and electrical tolerances.

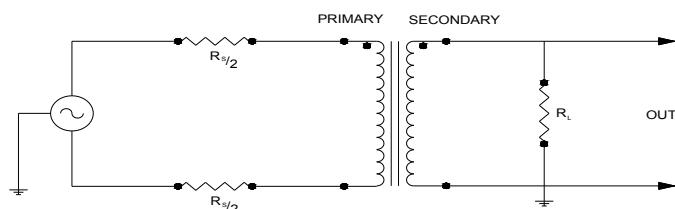
PRIMARY SECONDARY



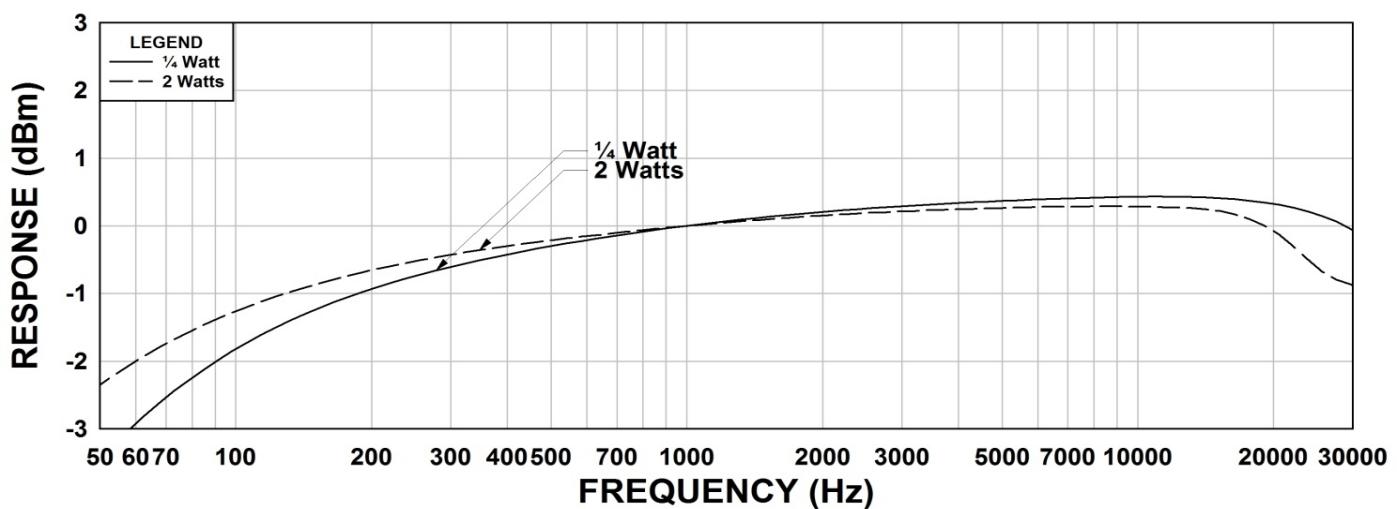
Dimensions

A	2.375" ±0.063	D	2.000" ±0.063
B	1.890" REF.	G	0.187" ±0.015
C	1.433" MAX.		

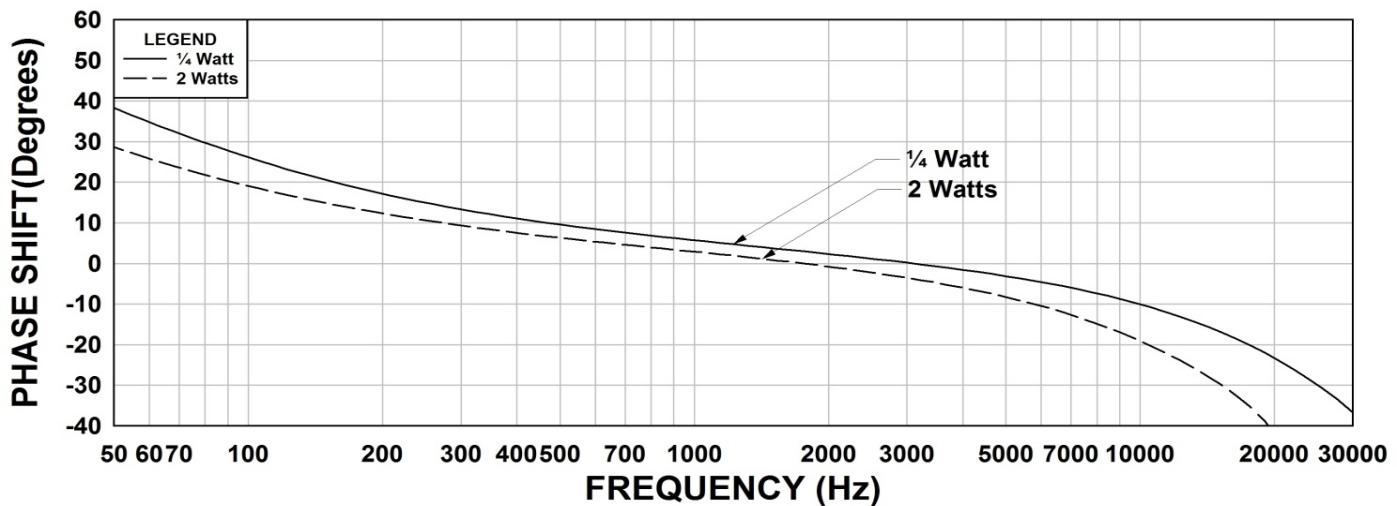
TYPICAL TEST CIRCUIT



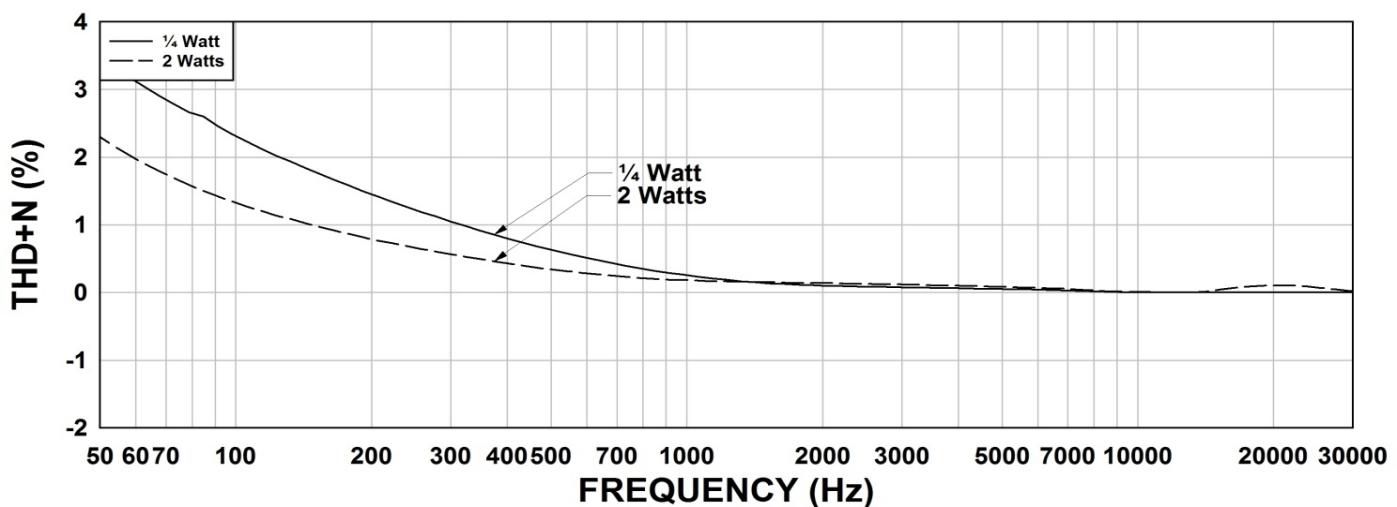
117F2 Frequency Response 1/4W & 2W



117F2 Phase Shift 1/4W & 2W



117F2 THD+N 1/4W & 2W



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