

117E4

70 V LINE AUDIO TRANSFORMER

- Couple 3.2ohm speakers to 70volt line outputs of amplifiers.
- Up to 5 power tap levels available
- Primary taps marked in watts (no calculation necessary), to match speaker power.
- Frequency response 100Hz. to 10Khz. (-1db. reference @1 KHz.)
- Distortion is less than 1.0% @ 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	4 Watts
Insertion Loss	<2dB
DCR	
COM - ¼ W	372Ω TYP
Input	0.23Ω TYP
INDUCTANCE/IMPEDANCE	
@1.0 KHz, 1V OC	
COM - ¼W	14.4H / 89KΩ
COM - ½W	7.45H / 46KΩ
COM-1W	3.94H / 24.1KΩ
COM-2W	2.12H / 12.82KΩ
COM-4W	1.65H / 7.22KΩ
Input	6.64mH / 34.77Ω
LEAKAGE INDUCTANCE	
@1.0 KHz, 1V SC	
¼W/ 4W	1.039H / 282mH
Dielectric Strength	1500VRMS
Temperature Range	-40 To 105°C

TEST CONDITIONS

Measurement instruments:

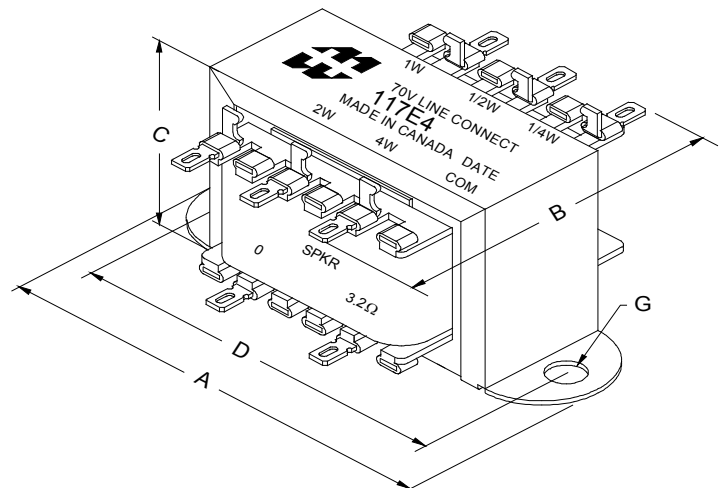
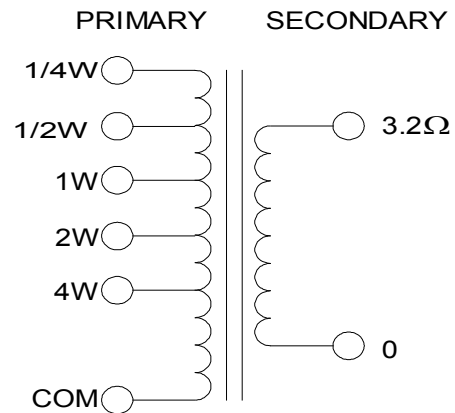
D scope series iii audio analyzer
Wayne Kerr 3255B with a 3265B

Keithley 2010 DVM

Hp4192a impedance analyzer

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

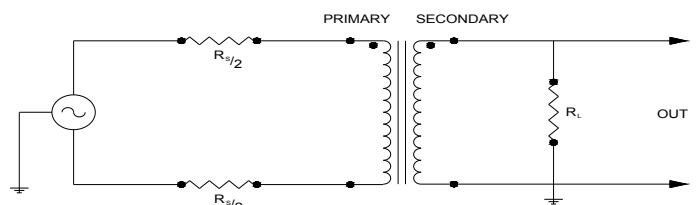
**The results are typical and are subject to normal manufacturing and electrical tolerances.



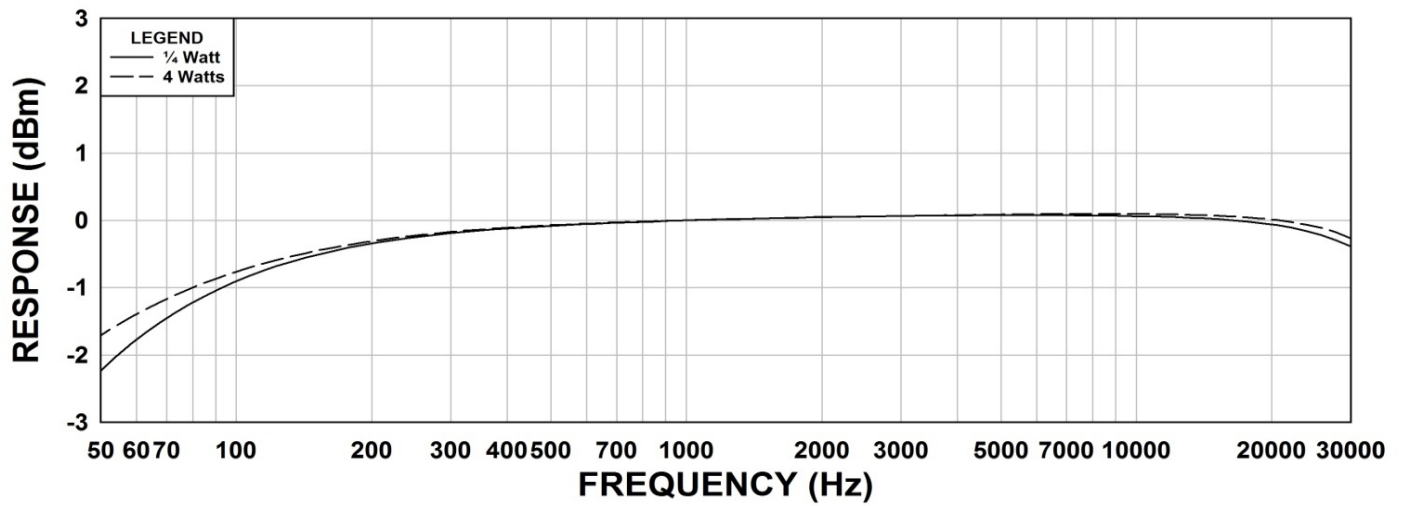
Dimensions

A	2.813" ±0.063	D	2.375" ±0.063
B	1.875" ±0.125	G	0.187" ±0.015
C	1.656" ±0.063		

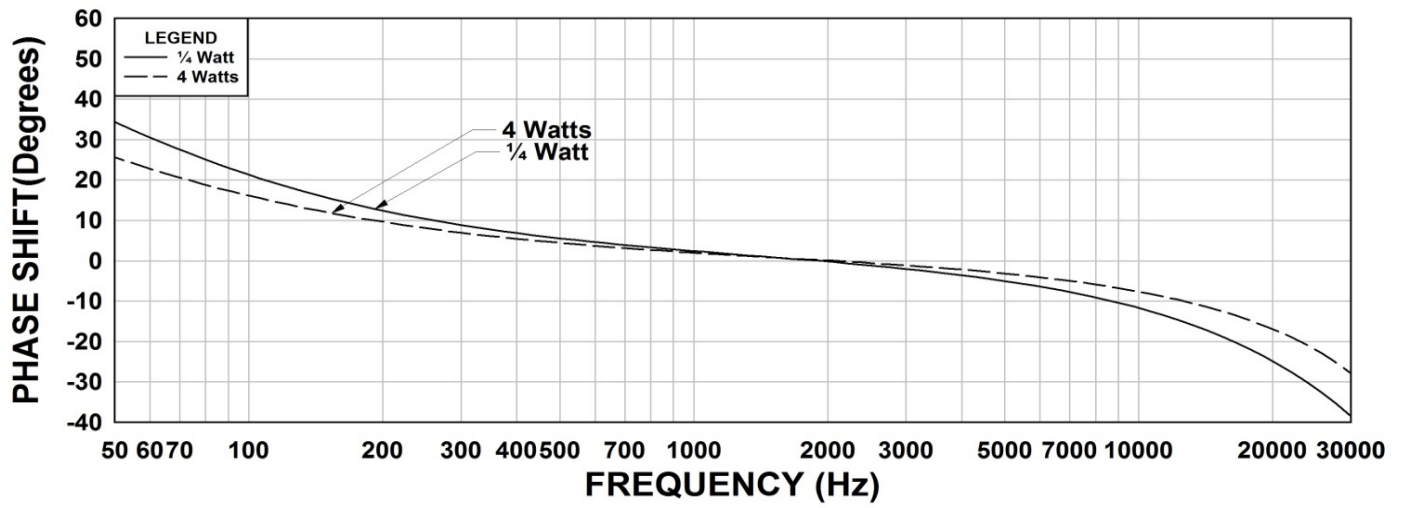
TYPICAL TEST CIRCUIT



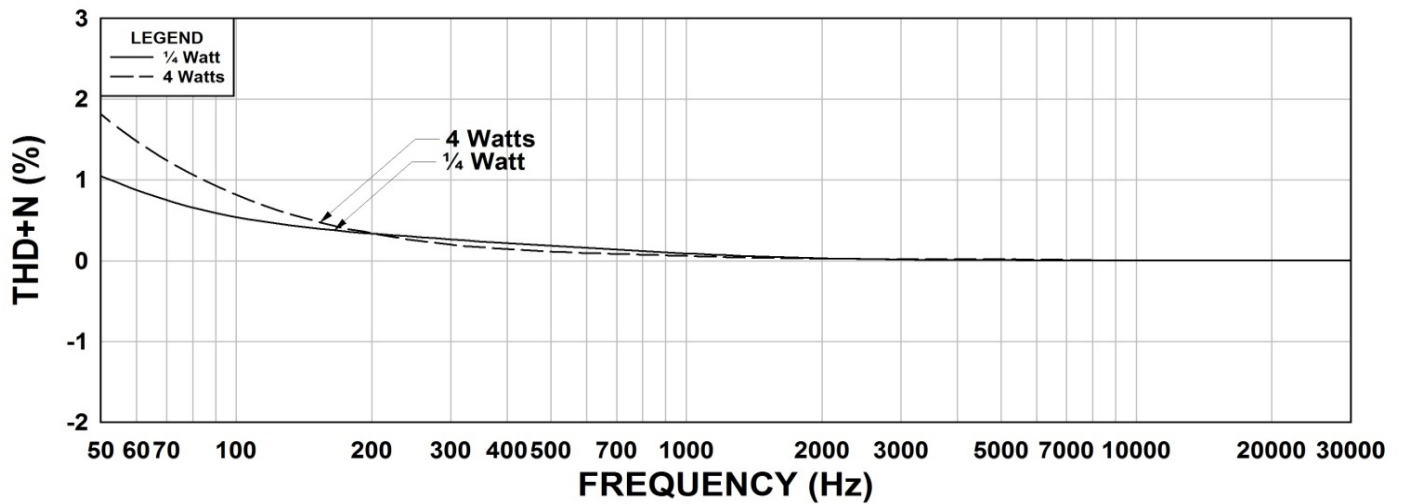
117E4 Frequency Response ¼W & 4W



117E4 Phase Shift ¼W & 4W



117E4 THD+N ¼W & 4W



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