

117F16

70 V LINE AUDIO TRANSFORMER

- Couple 8ohm 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 9Khz (+1/-2dB reference @1 KHz)
- Distortion is less than 2.0% @ 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	16 Watts
Insertion Loss	<2dB
DCR	
COM - 1 W	81.6Ω TYP
Input	0.63Ω TYP
INDUCTANCE/IMPEDANCE	
	@1.0 KHz, 1V OC
COM - 1W	4.72H / 27.9KΩ
COM - 2W	2.46H / 14.40KΩ
COM - 4W	1.32H / 7.54KΩ
COM - 8W	716.5mH / 3.99KΩ
COM - 16W	397mH / 2.14KΩ
Input	16.60mH / 75.30Ω
LEAKAGE INDUCTANCE	
	@1.0 KHz, 1V SC
1W/ 16W	154.80mH / 36.18mH
Dielectric Strength	
	1500VRMS
Temperature Range	
	-40 To 105°C

TEST CONDITIONS

Measurement instruments:

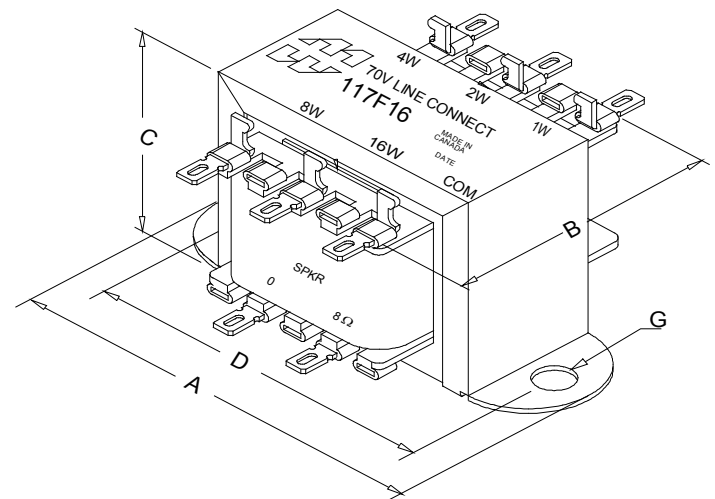
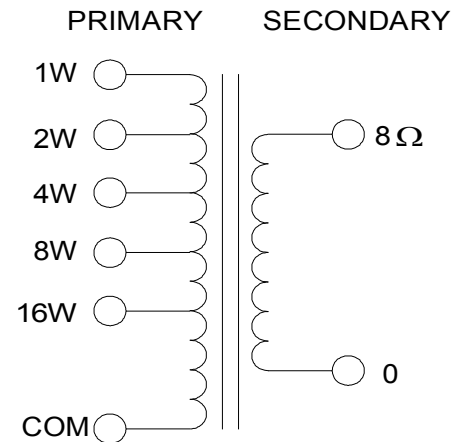
D scope series iii audio analyzer
Wayne Kerr 3255B with a 3265B

Keithley 2010 DVM

Hp4192a impedance analyzer

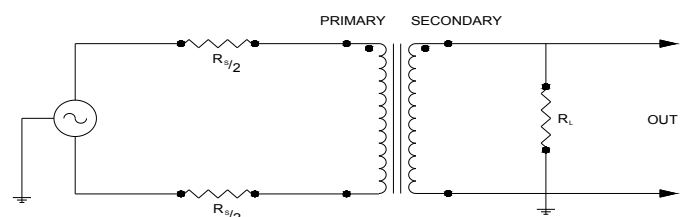
* All graphs input level 27dBm @1.0KHz reference.

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

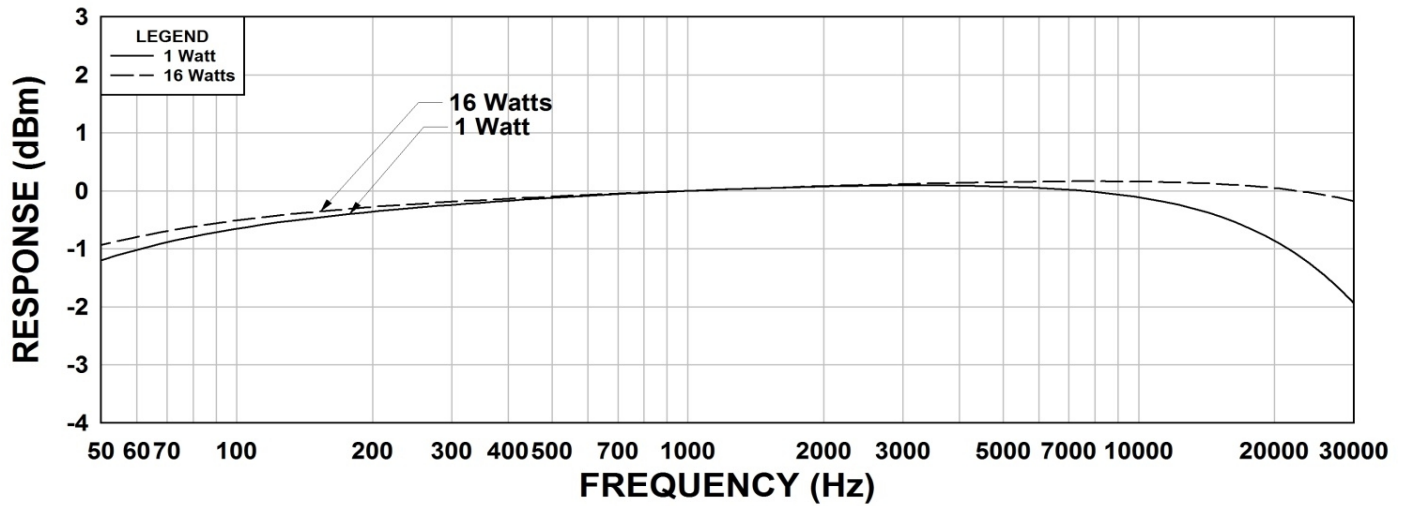


Dimensions			
A	3.688" ±0.063	D	3.125" ±0.063
B	1.945" REF	G	0.187" ±0.015
C	2.310 MAX		

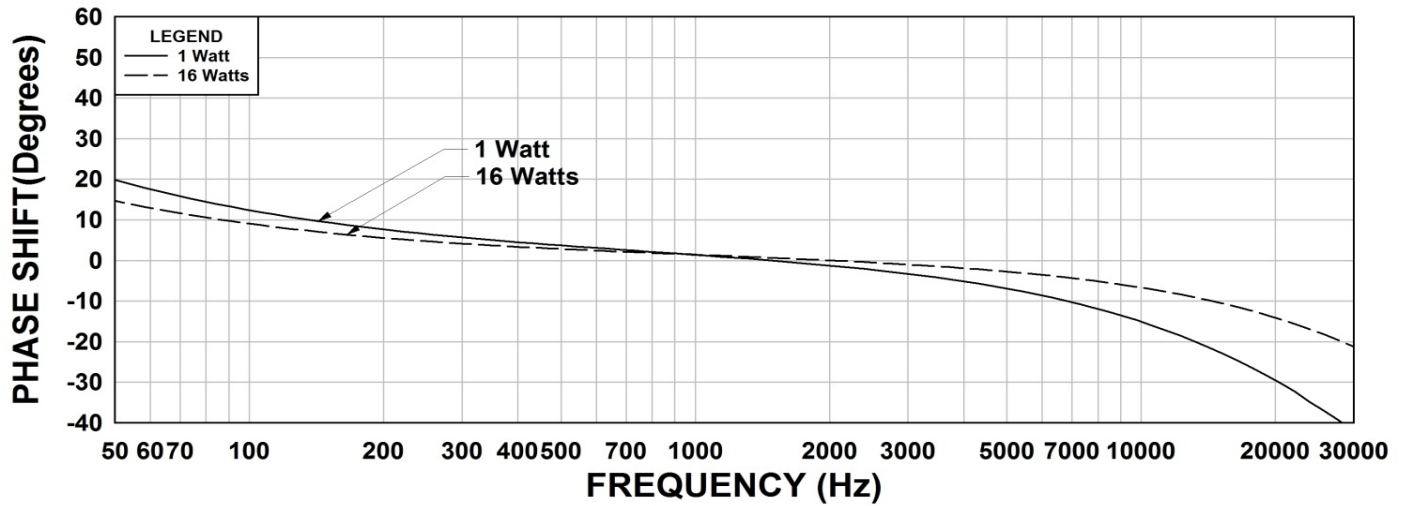
TYPICAL TEST CIRCUIT



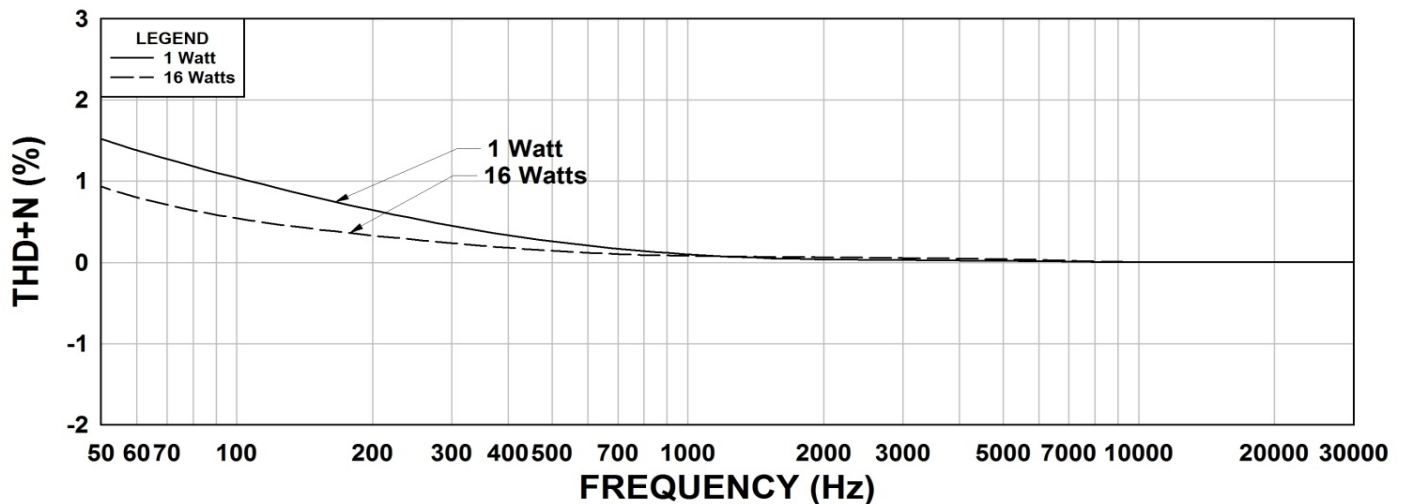
117F16 Frequency Response 1W & 16W



117F16 Phase Shift 1W & 16W



117F16 THD+N 1W & 16W



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