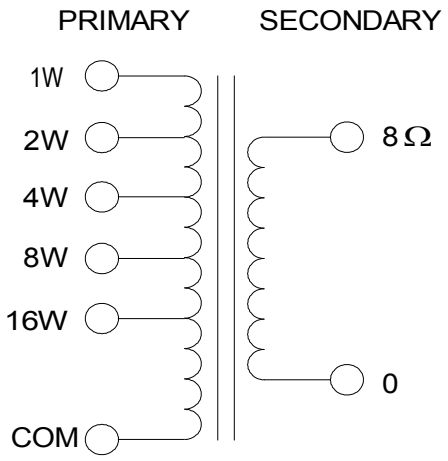
Hammond Mfg. Co. Ltd., Electronics Division

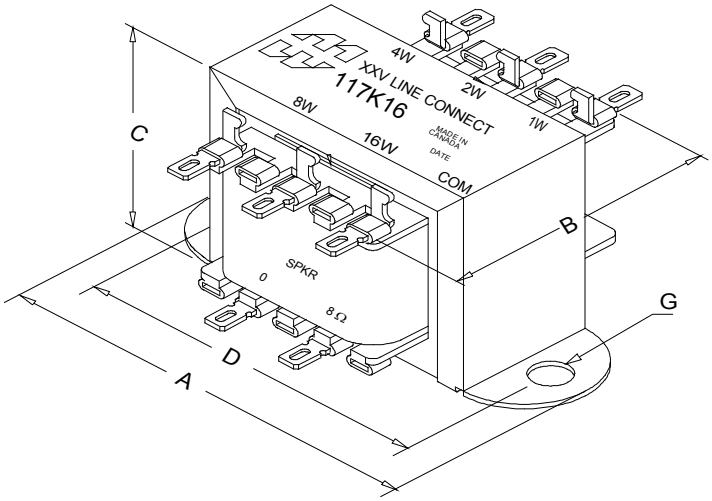
www.hammondmfg.com

117K16

25 V LINE AUDIO TRANSFORMER

- Couple 8ohm speakers to 25volt 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. (+2/-3 db. 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	25V
Power Rating	16 Watts
Insertion Loss	<2dB
DCR	
COM - 1 W	10.2Ω TYP
Input	0.44Ω TYP
INDUCTANCE/IMPEDANCE	@1.0 KHz, 1V OC
COM - 1W	303mH / 1.78KΩ
COM - 2W	162mH / 942Ω
COM - 4W	88mH / 500Ω
COM - 8W	47mH / 263Ω
COM - 16W	25mH / 138Ω
Input	5.3mH / 29.0Ω
LEAKAGE INDUCTANCE	@1.0 KHz, 1V SC
1W/ 16W	14.63mH / 3.18mH
Dielectric Strength	1500VRMS
Temperature Range	-40 To 105°C

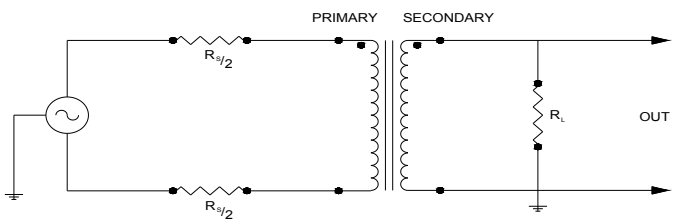
Dimensions			
A	3.688” ±0.063	D	3.125” ±0.063
B	1.945" REF	G	0.187” ±0.015
C	2.310 MAX		

TEST CONDITIONS

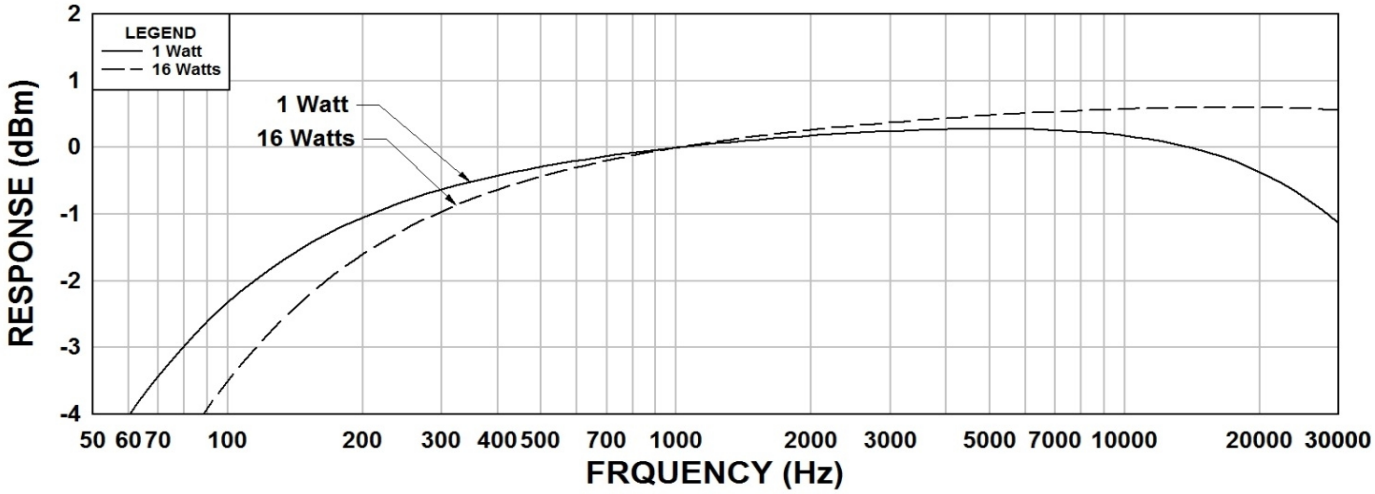
Measurement instruments:
Hp4192a impedance analyzer Keithley 2002 DVM
D scope series iii audio analyzer Hp3456a DVM

* All graphs input level 27dBm.
**The results are typical and are subject to normal manufacturing and electrical tolerances.

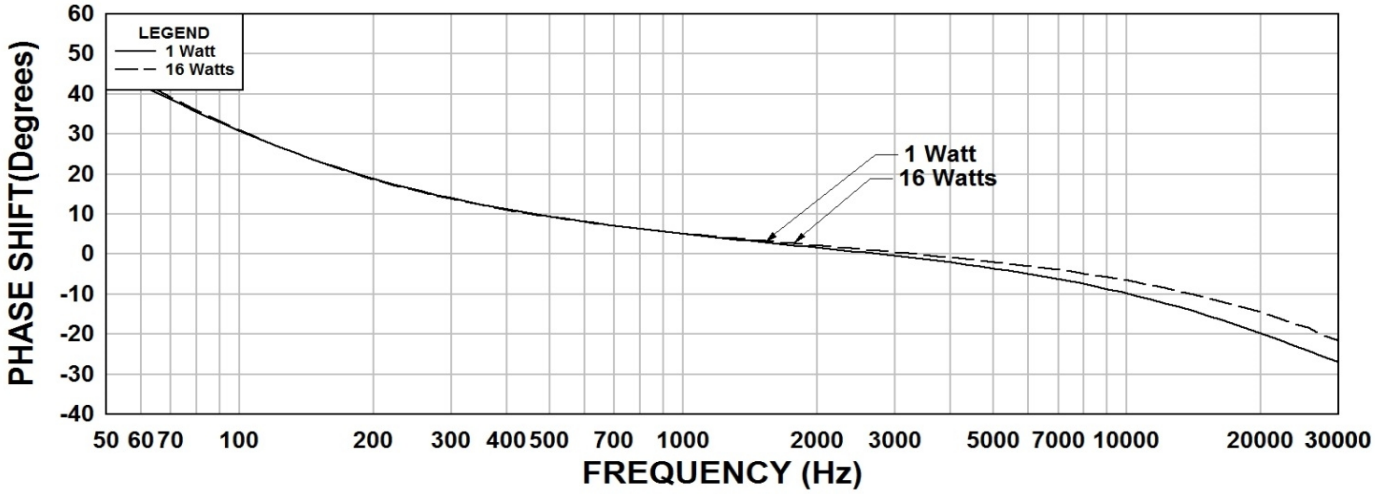
TYPICAL TEST CIRCUIT



117K16 Frequency Response 1W & 16W



117K16 Phase Shift 1W & 16W



117K16 THD+N 1W & 16W