

117E16

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 9Khz (±1dB 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

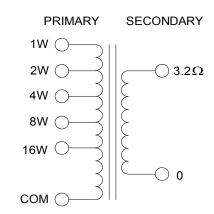
Characteristics	Typical
System Voltage	70V
Power Rating	16 Watts
Insertion Loss	<2dB
DCR	
COM - 1 W	81.6Ω TYP
Input	0.26Ω ΤΥΡ
INDUCTANCE/IMPEDANCE	@1.0 KHz, 1V OC
COM - 1W	4.78H / 28.0KΩ
COM - 2W	2.51H / 14.55KΩ
COM - 4W	1.35H / 7.64KΩ
COM - 8W	743.5mH / 4.05KΩ
COM - 16W	419.2mH / 2.17KΩ
Input	9.39mH / 32.78Ω
LEAKAGE INDUCTANCE	@1.0 KHz, 1V SC
1W/ 16W	158.80mH / 34.02mH
Dielectric Strength	1500VRMS
Temperature Range	-40 To 105°C

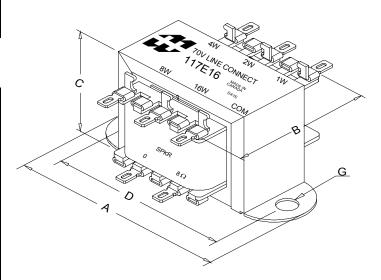
TEST CONDITIONS

Measurement instruments:

D scope series iii audio analyzer Keithley 2010 DVM Wayne Kerr 32558 with a 32658 Hp4192a impedance analyzer

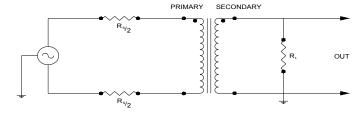
- * All graphs input level 27dBm @1.0KHz reference.
- **The results are typical and are subject to normal manufacturing and electrical tolerances.



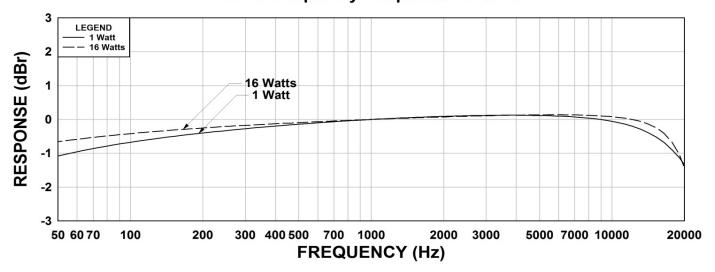


Dimensions				
Α	3.688" ±0.063	D	3.125" ±0.063	
В	1.945" REF	G	0.187" ±0.015	
С	2.310 MAX			

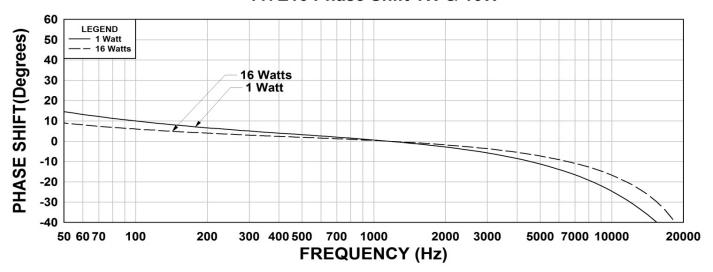
TYPICAL TEST CIRCUIT



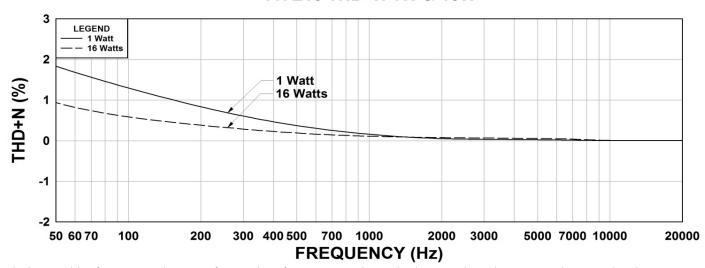
117E16 Frequency Response 1W & 16W



117E16 Phase Shift 1W & 16W



117E16 THD+N 1W & 16W



This drawing and the information in it is the property of Hammond Manufacturing. It may not be reproduced, transmitted or used in any manner whatsoever without the written permission of Hammond Manufacturing. Data subject to change without notice.