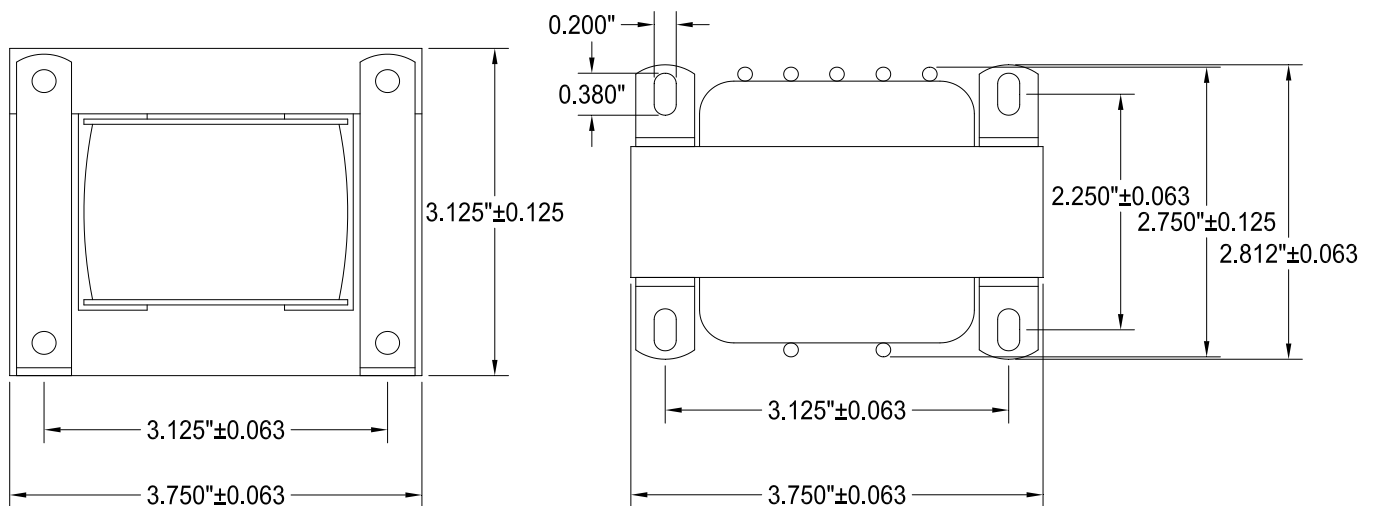
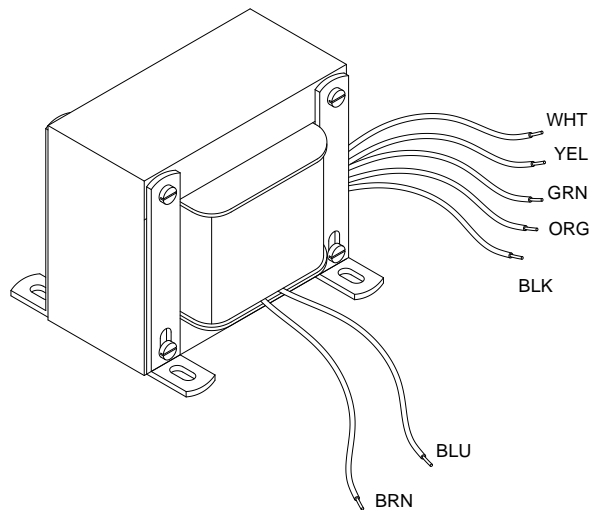




# 125FSE

## UNIVERSAL SINGLE ENDED TUBE OUTPUT TRANSFORMER

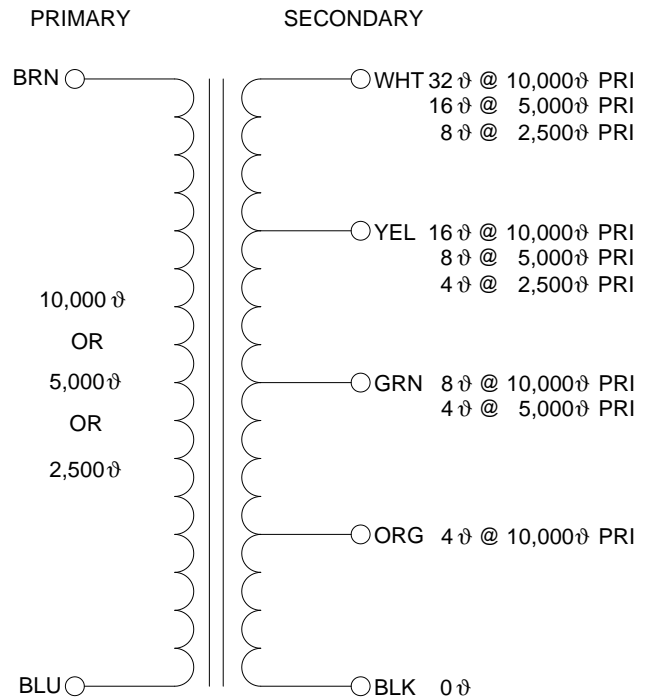
- ) Designed for general purpose or replacement use (not Hi-Fi), in single ended, tube output circuits.
- ) Frequency response: 100 Hz. - 15 KHz at full rated power (see graphs for detailed response).
- ) For full frequency response (20 Hz. to 20 KHz.) - see our 1627-1642 Series.
- ) For push-pull output use, see our 125 Series.
- ) Open style with minimum 12" long primary & secondary leads.
- ) All sizes use butt stacked cores (using 29M6 steel) with an air gap, to reduce D.C. core saturation.
- ) Primary impedance range from 2,500 to 10,000 Ohms.
- ) Secondary impedance range from 4 to 32 Ohms.



**ELECTRICAL SPECIFICATIONS\*\***

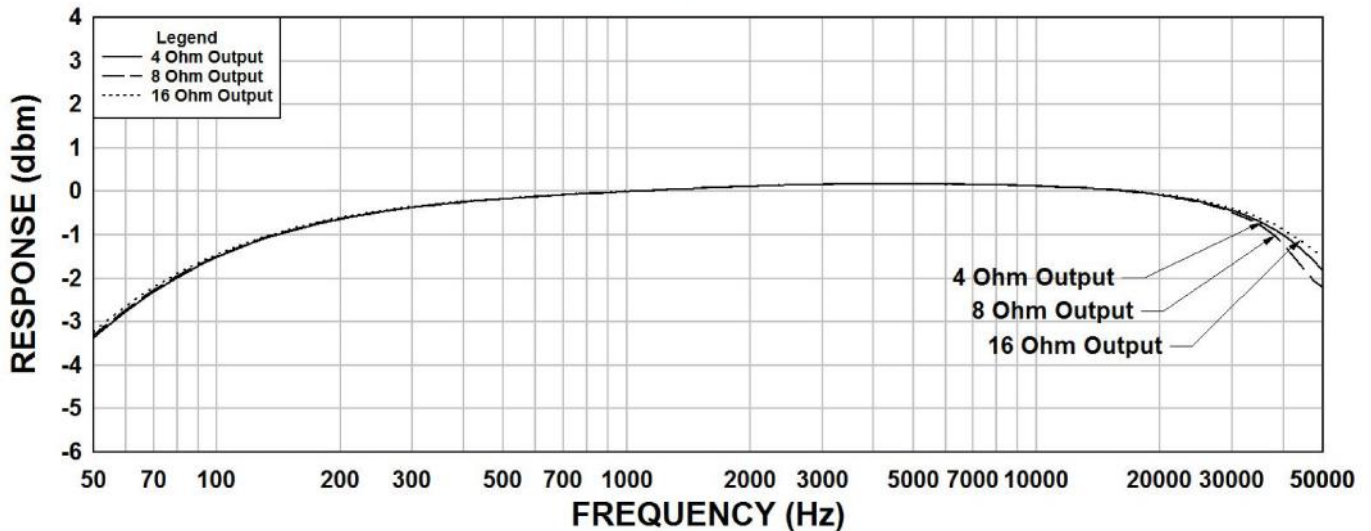
<u>Characteristic</u>	<u>Typical</u>
Input Impedance	2500 - 10000 $\varnothing$
Output Impedance	4/8/16/32 $\varnothing$
Output Power	20 Watts
Max. DC Bias	90 mA
<b>Primary - DCR</b>	
Blue - Brown	105.0 $\varnothing$
<b>Secondary DCR</b>	
Black - Orange	141 m $\varnothing$
Black - Green	186 m $\varnothing$
Black - Yellow	251 m $\varnothing$
Black - White	342 m $\varnothing$
<b>Inductance</b> @ 1.0 kHz, 1.0 V OC	
Primary - Blue - Brown	6.41 Hy
Sec - Black - Orange	4.04 mH
Sec - Black - Green	10.26 mH
Sec - Black - Yellow	18.21 mH
Sec - Black - White	40.75 mH
<b>Impedance</b> @ 1.0 kHz, 1.0 V OC	
Primary - Blue - Brown	40.50 K $\varnothing$
Sec - Black - Orange	27.75 $\varnothing$
Sec - Black - Green	60.56 $\varnothing$
Sec - Black - Yellow	121.9 $\varnothing$
Sec - Black - White	240.0 $\varnothing$
Frequency Response	See graphs for specific response, Typ. $\left\{ \begin{array}{l} 1.0\text{db from} \\ 100\text{Hz to } 15\text{KHz} \end{array} \right.$
Dielectric Strength	1500Vrms
Temperature Range	-40 To 105 $\varnothing$ C

**Schematic and Hook Up Data**

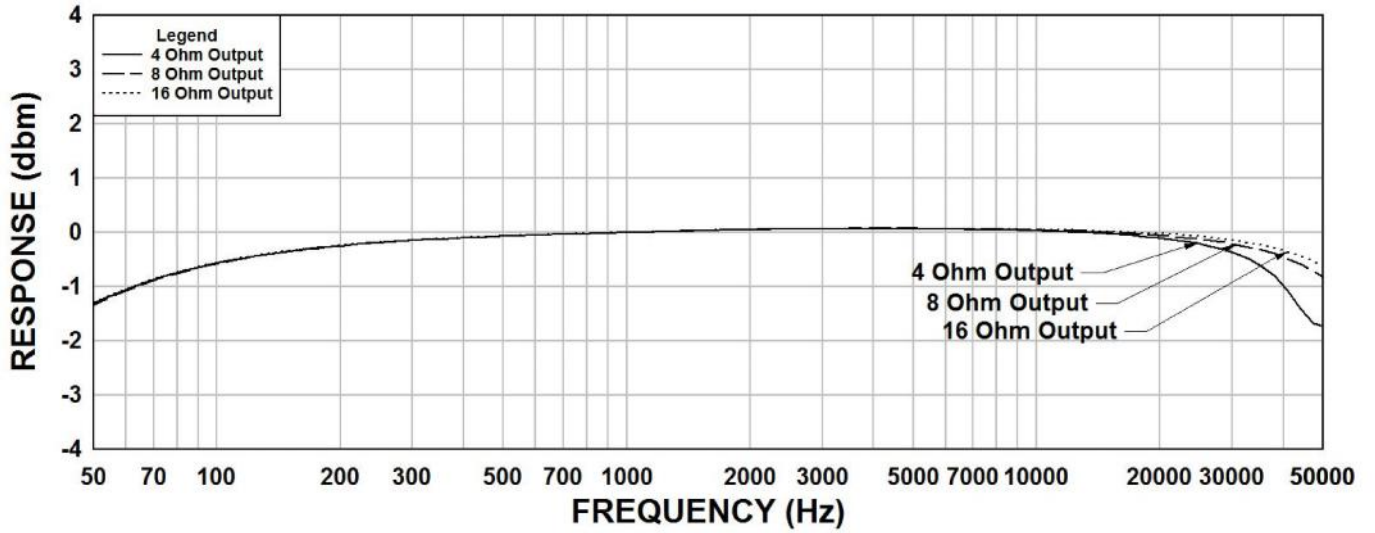


**HAMMOND MANUFACTURING** **125FSE**  
**W** SINGLE ENDED AUDIO 20W 90mA DC  
 PRI: 10,000; 5,000; 2,500 OHM  
 SEC: 4, 8, 16, 32 OHM  
 DATE CODE                      MADE IN CANADA

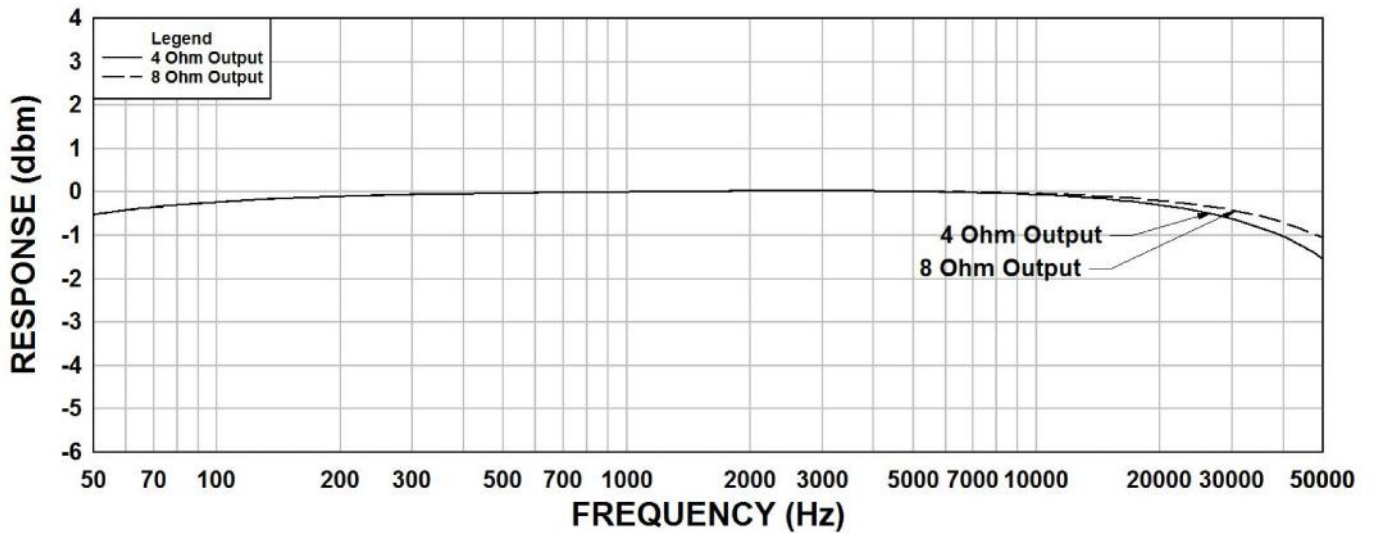
**125FSE Frequency Response Rs=10K $\Omega$**



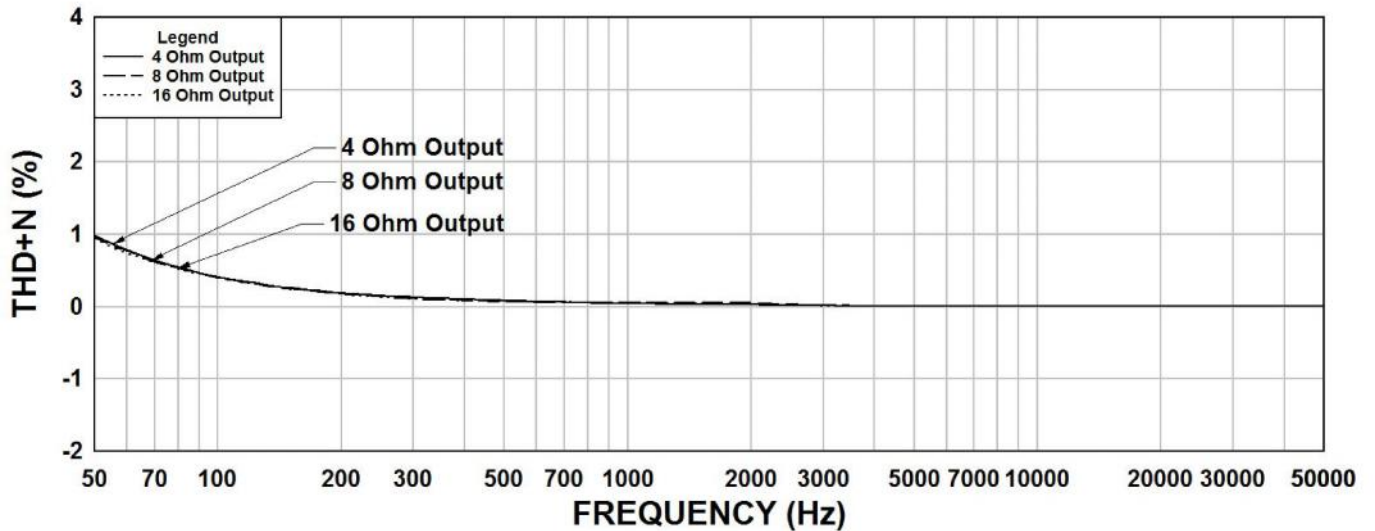
### 125FSE Frequency Response $R_s=5K\Omega$



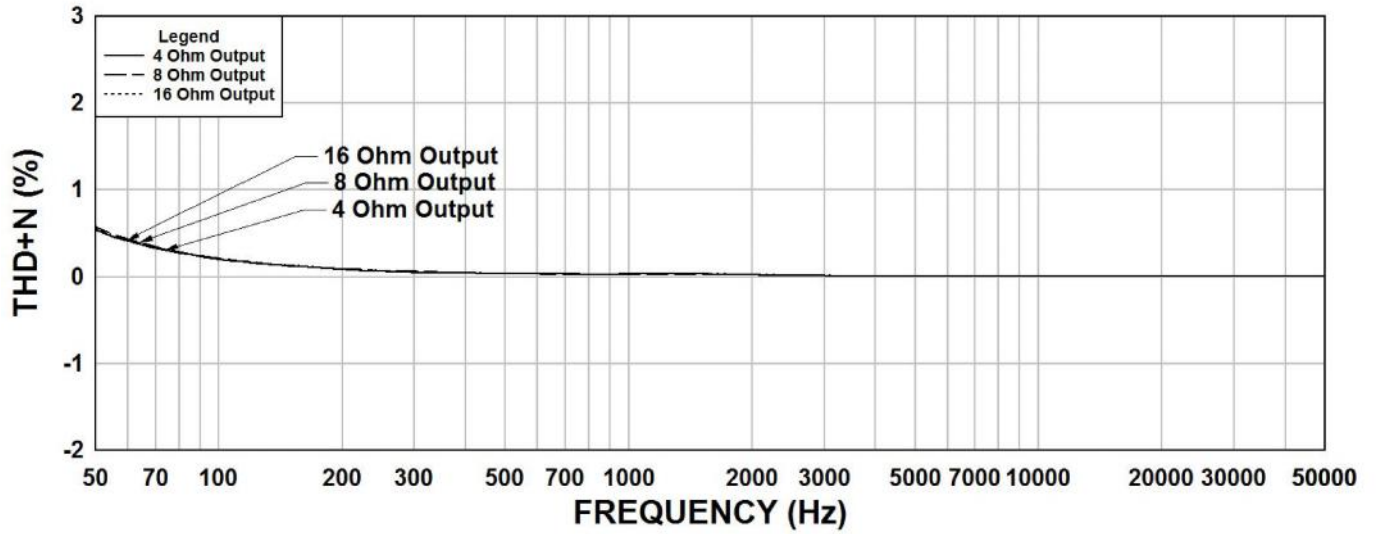
### 125FSE Frequency Response $R_s=2500\Omega$



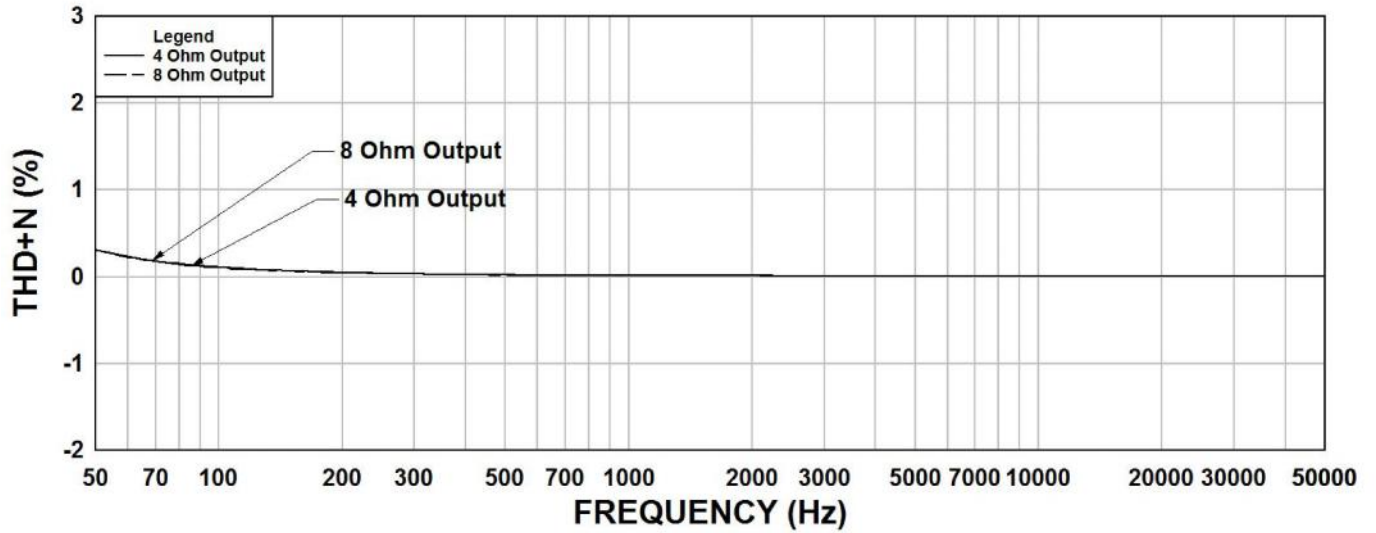
### 125FSE THD+N $10K\Omega$



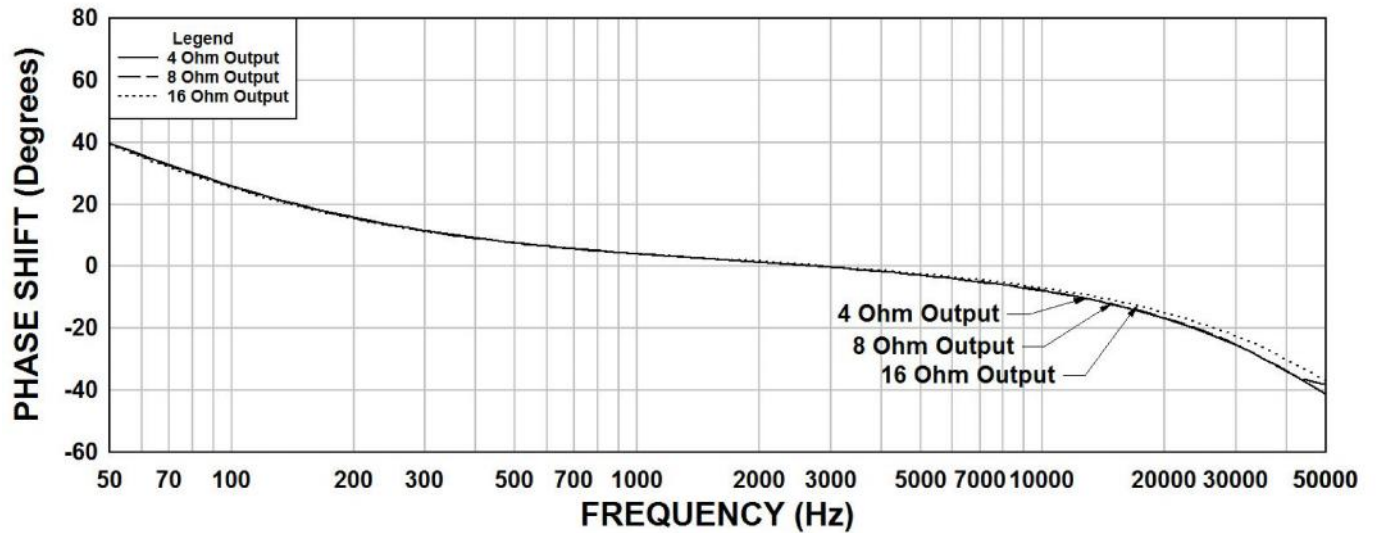
### 125FSE THD+N 5KΩ



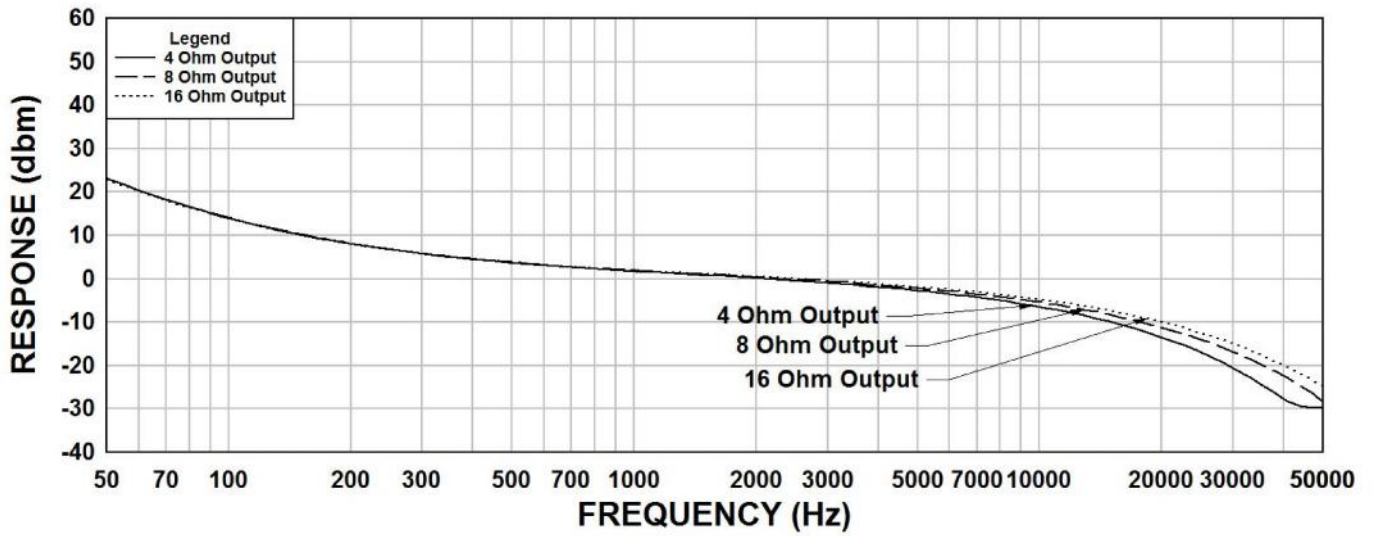
### 125FSE THD+N Rs=2500Ω



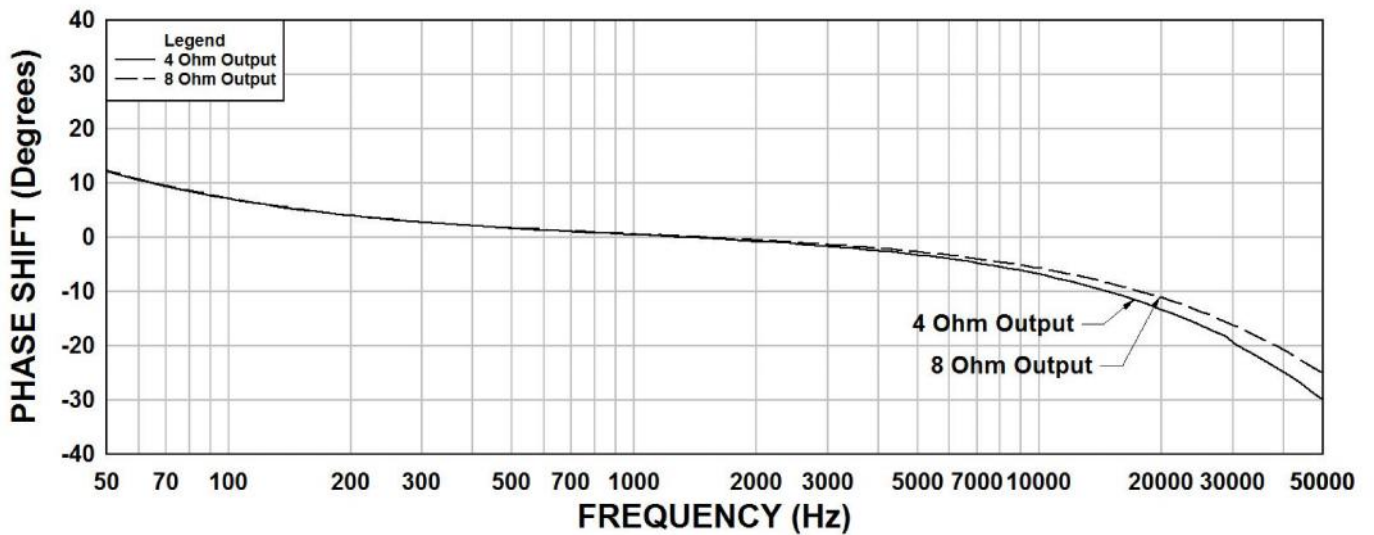
### 125FSE Phase Shift Rs=10KΩ



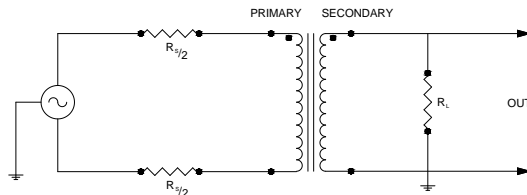
### 125FSE Phase Shift $R_s=5K\Omega$



### 125FSE Phase Shift $R_s=2500\Omega$



TYPICAL TEST CIRCUIT



Measurement instruments  
 Hp4192a impedance analyzer  
 Hp3456a DVM  
 Keithley 2002 DVM  
 D scope series iii audio analyzer  
 Wayne Kerr 3255B with a 3265B

\* All graphs input level 20dbu.  
 \*\* The results are typical and are subject to normal manufacturing and electrical tolerances.