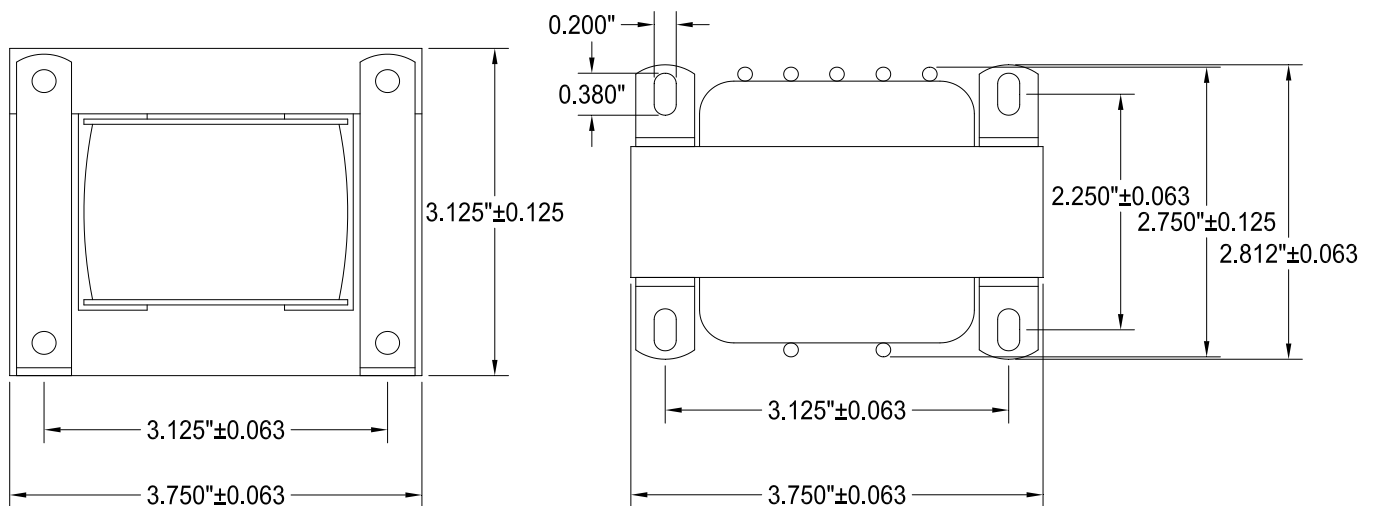
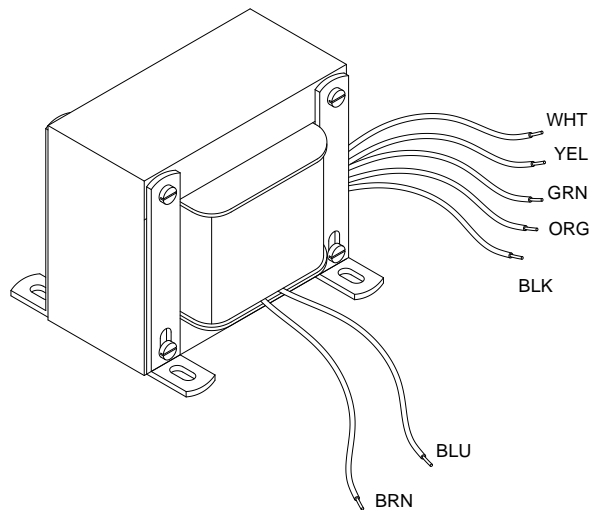




125FSE

UNIVERSAL SINGLE ENDED TUBE OUTPUT TRANSFORMER

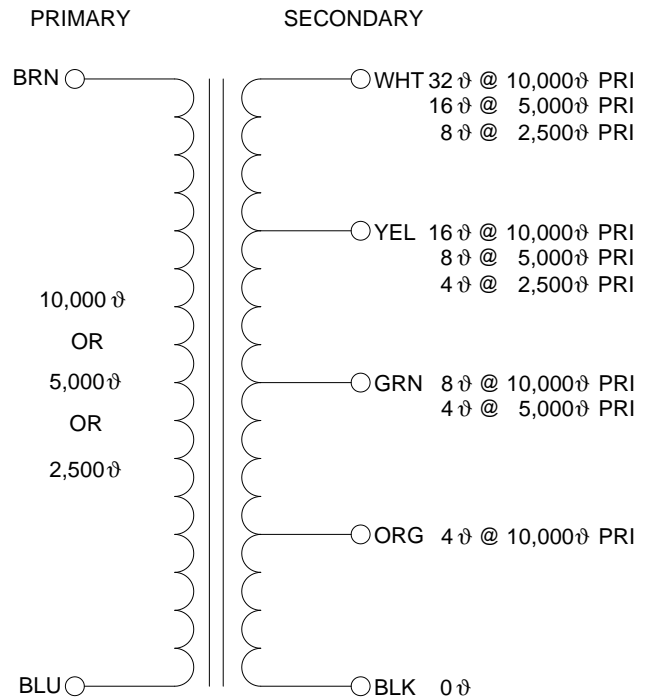
-) Designed for general purpose or replacement use (not Hi-Fi), in single ended, tube output circuits.
-) Frequency response: 100 Hz. - 15 Khz at full rated power (see graphs for detailed response).
-) For full frequency response (20 Hz. to 20 Khz.) - see our 1627-1642 Series.
-) For push-pull output 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
Primary - DCR	
Blue - Brown	105.0 \varnothing
Secondary DCR	
Black - Orange	141 m \varnothing
Black - Green	186 m \varnothing
Black - Yellow	251 m \varnothing
Black - White	342 m \varnothing
Inductance @ 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
Impedance @ 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**

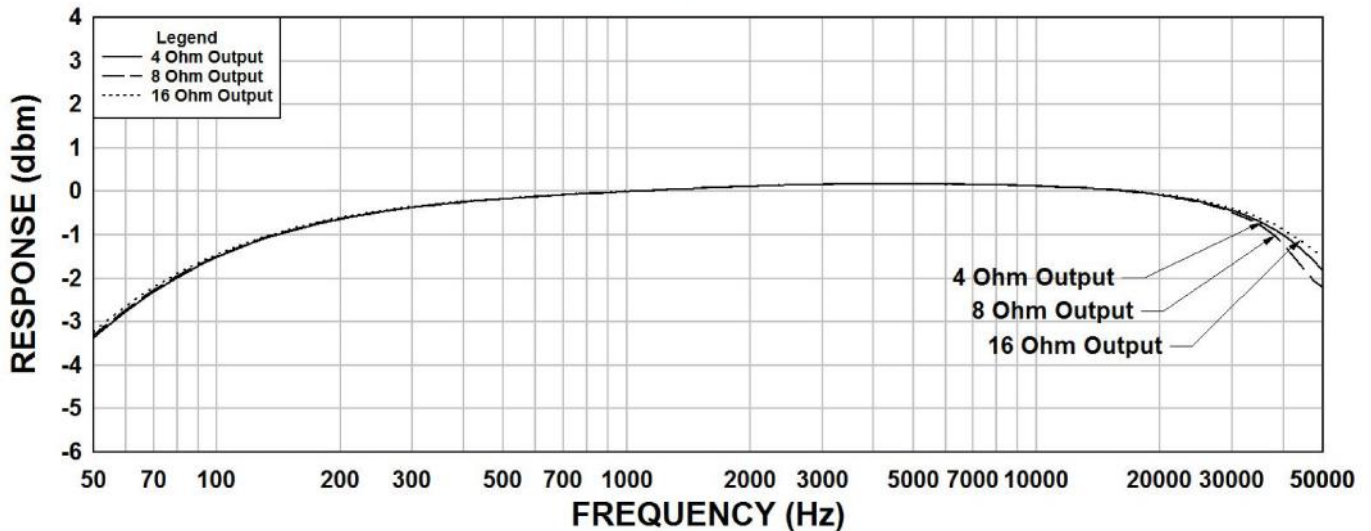
SINGLE ENDED AUDIO 20W 90mA DC

PRI: 10,000; 5,000; 2,500 OHM

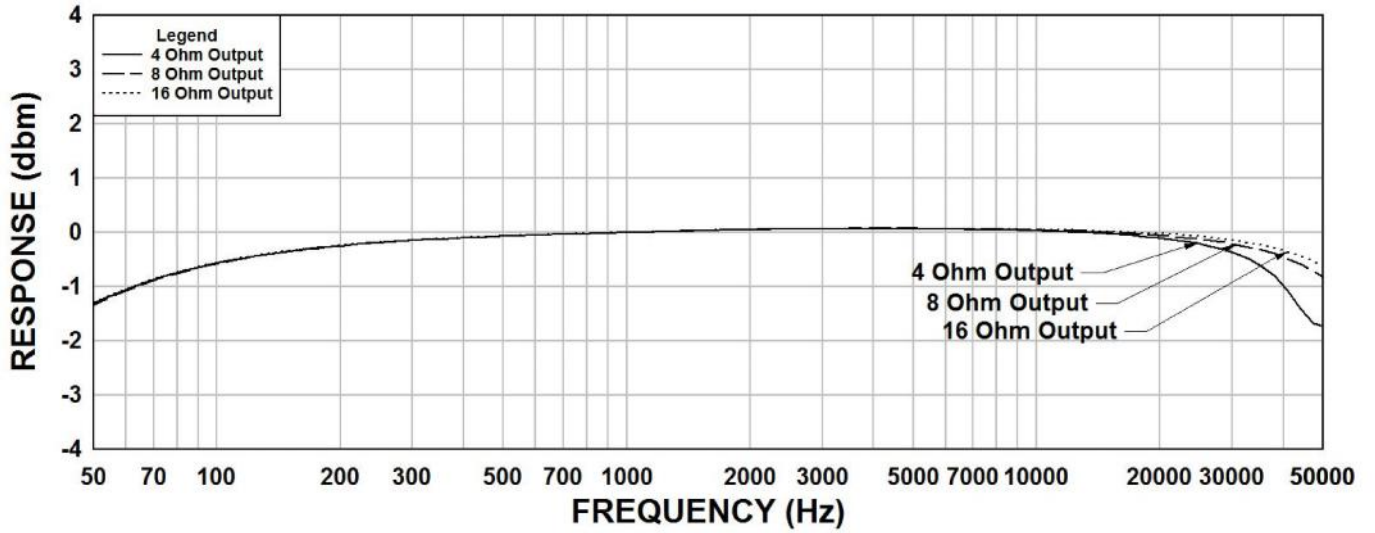
SEC: 4, 8, 16, 32 OHM

DATE CODE MADE IN CANADA

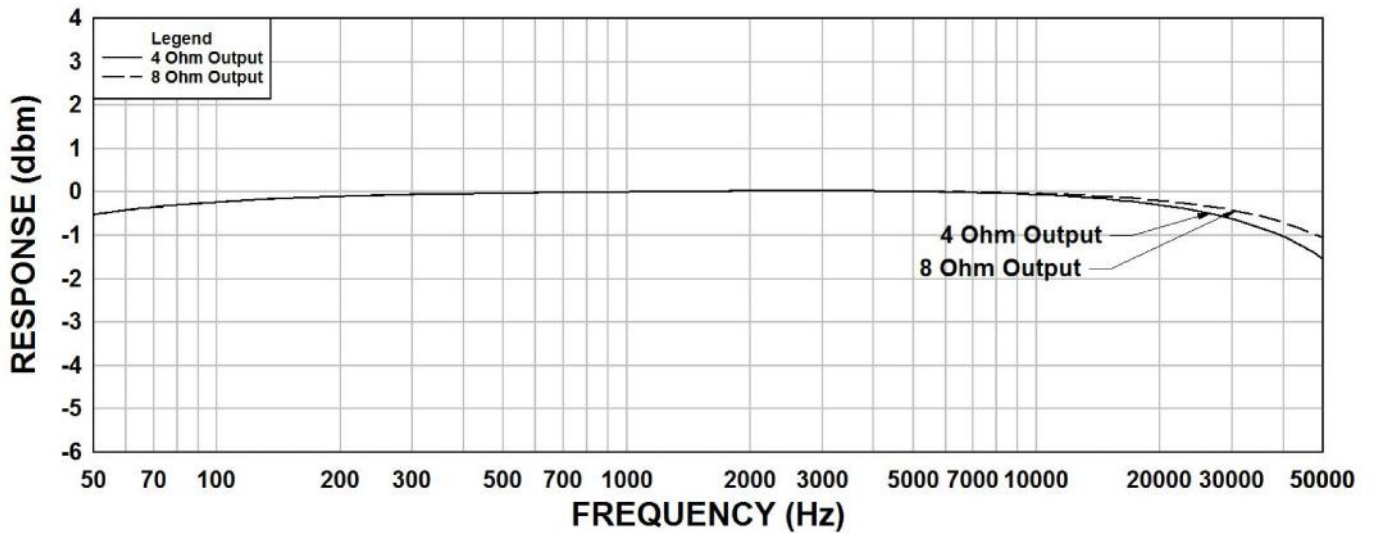
125FSE Frequency Response Rs=10K Ω



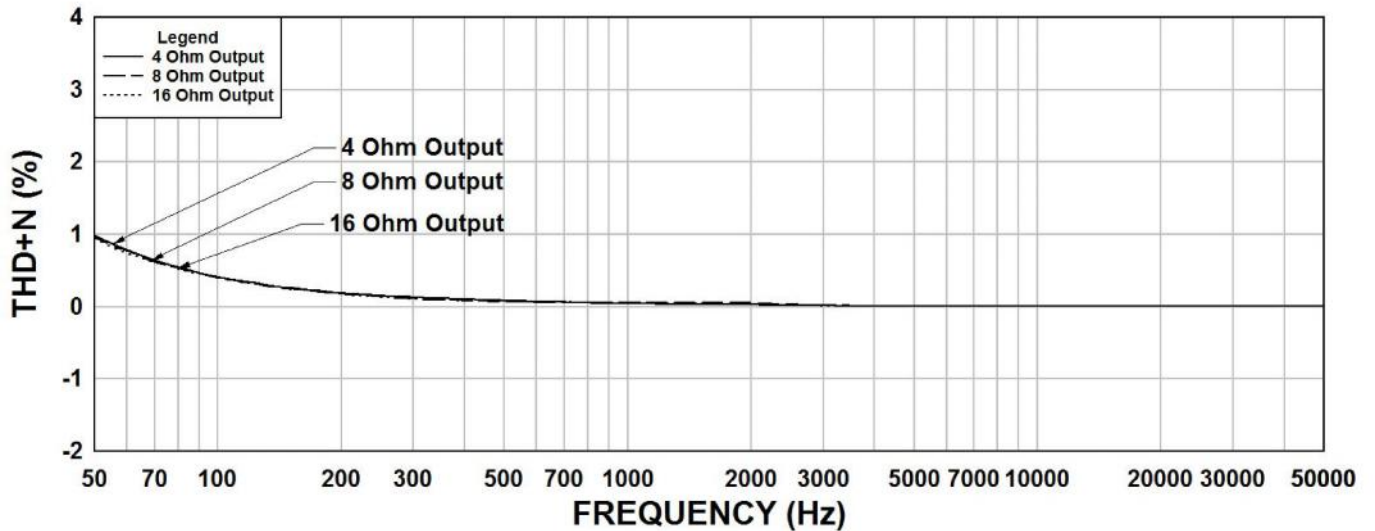
125FSE Frequency Response $R_s=5K\Omega$



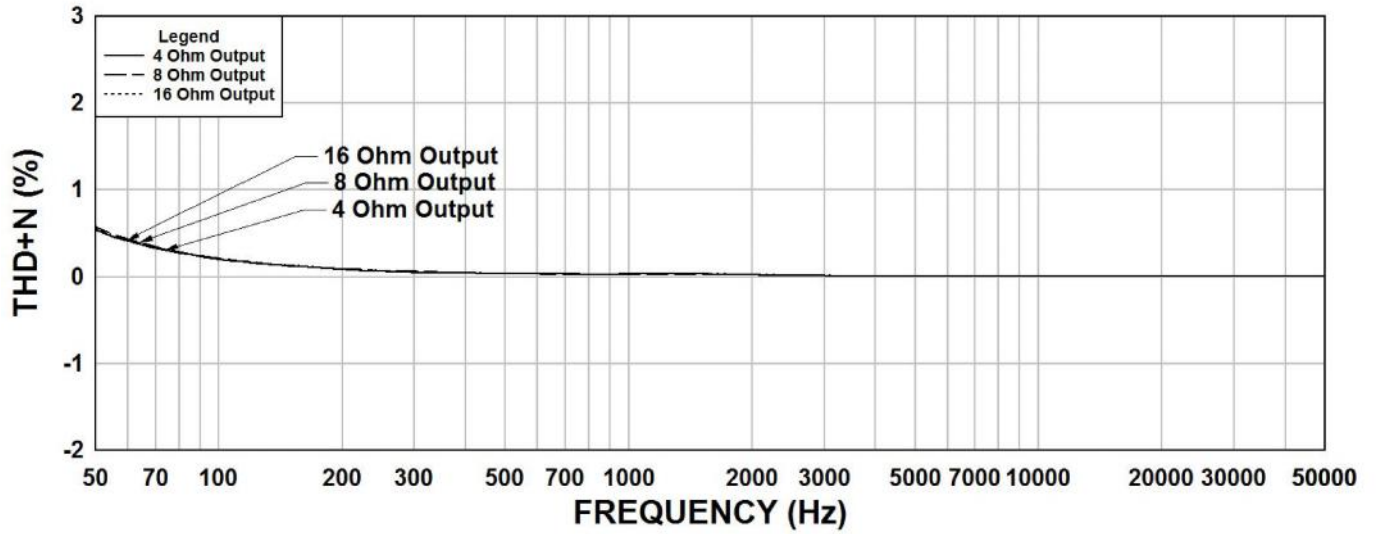
125FSE Frequency Response $R_s=2500\Omega$



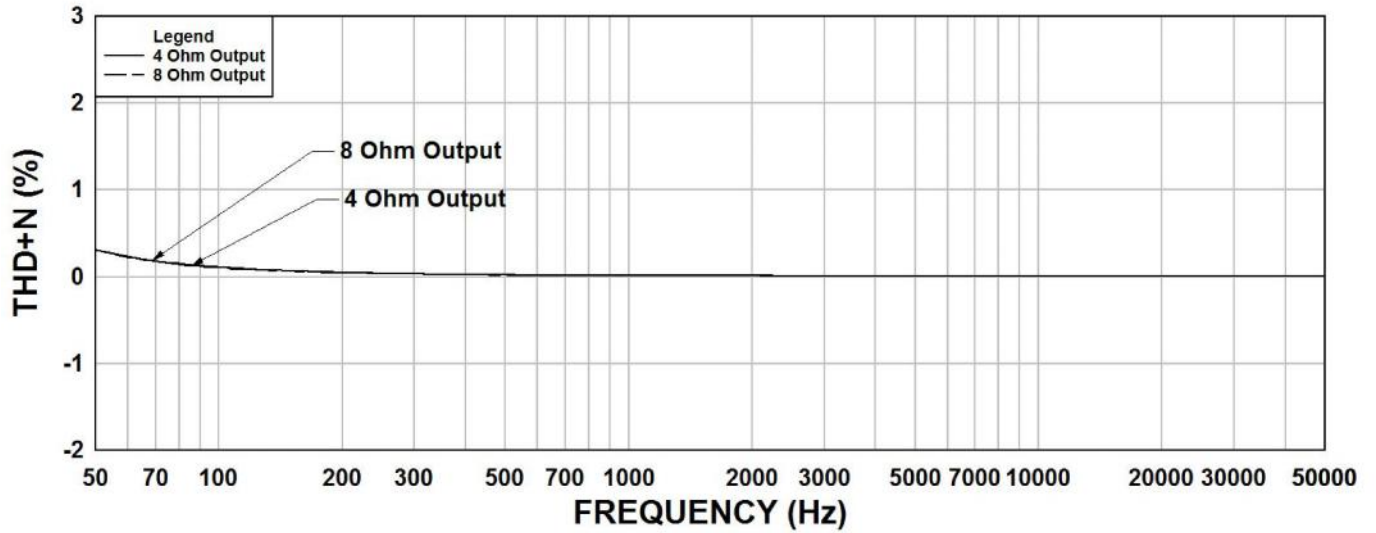
125FSE THD+N $10K\Omega$



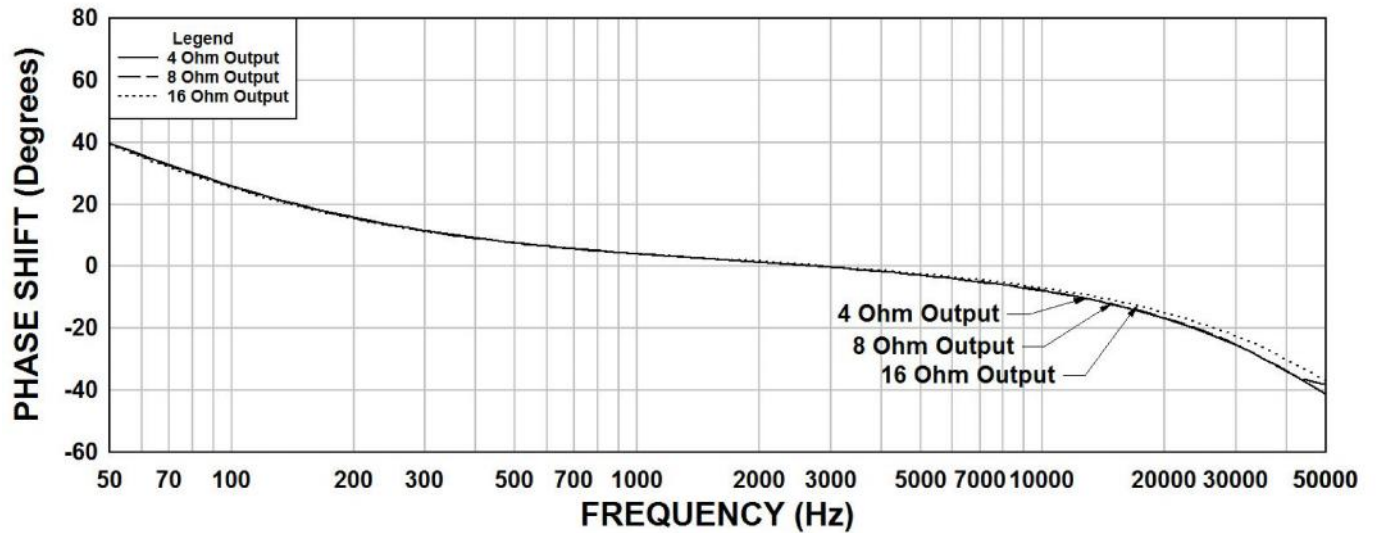
125FSE THD+N 5KΩ



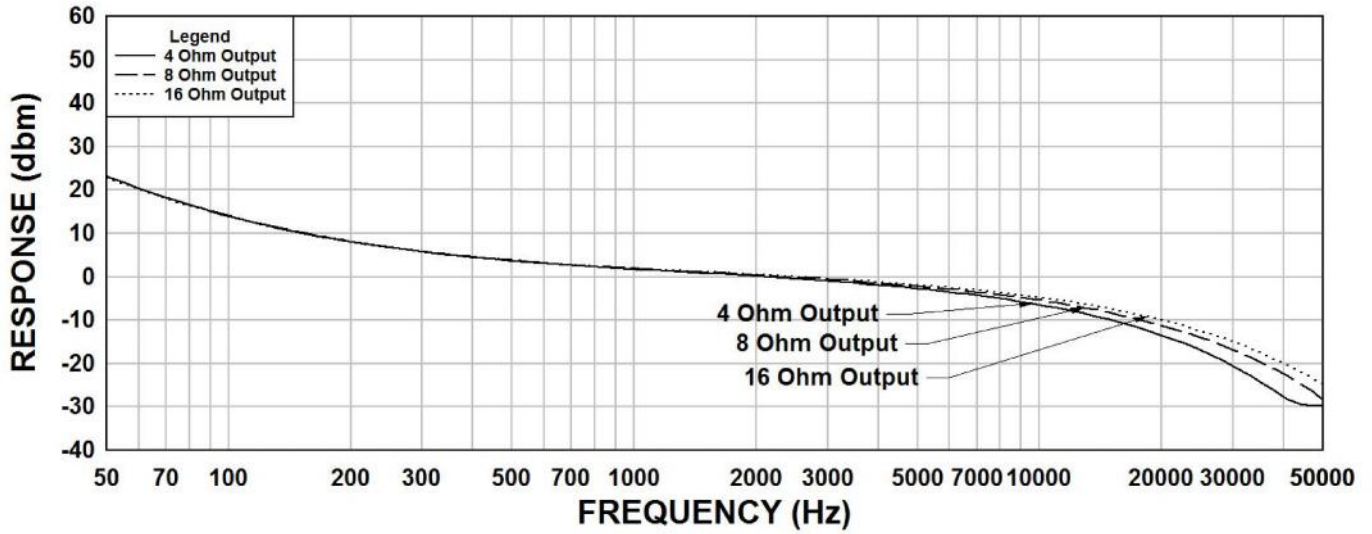
125FSE THD+N Rs=2500Ω



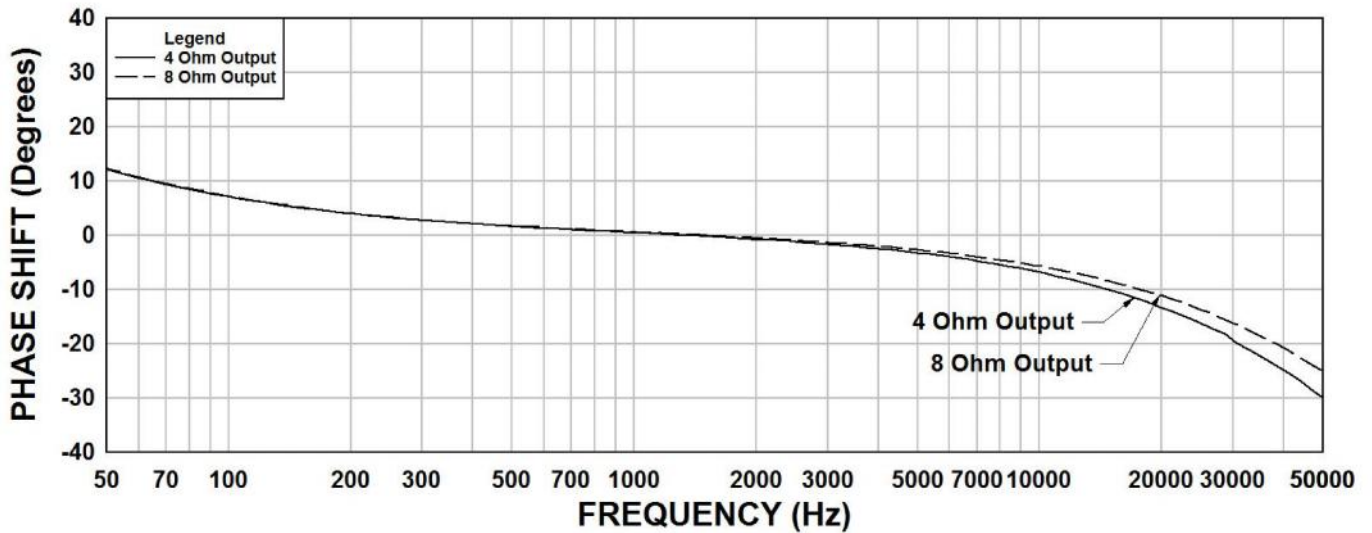
125FSE Phase Shift Rs=10KΩ



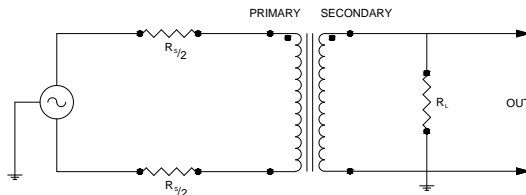
125FSE Phase Shift $R_s=5K\Omega$



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.