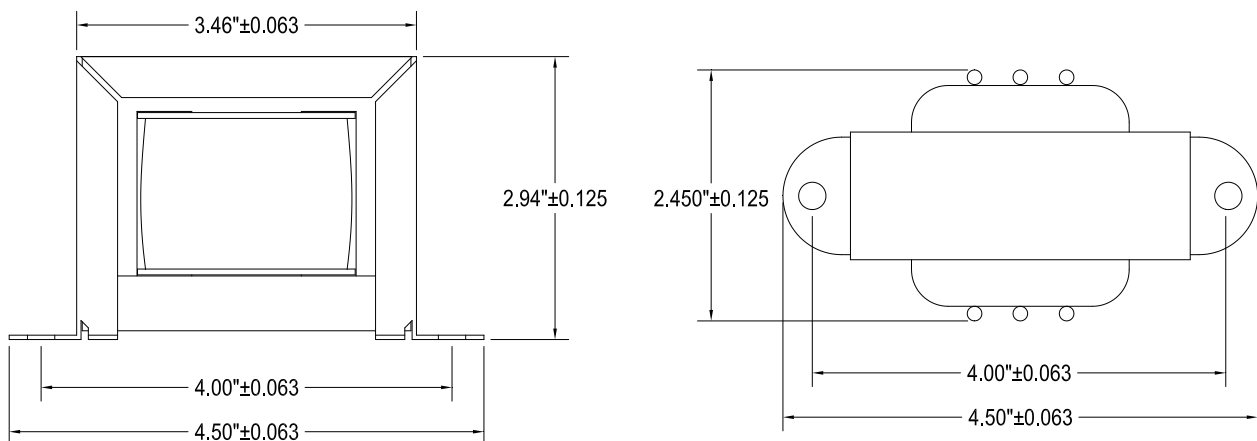
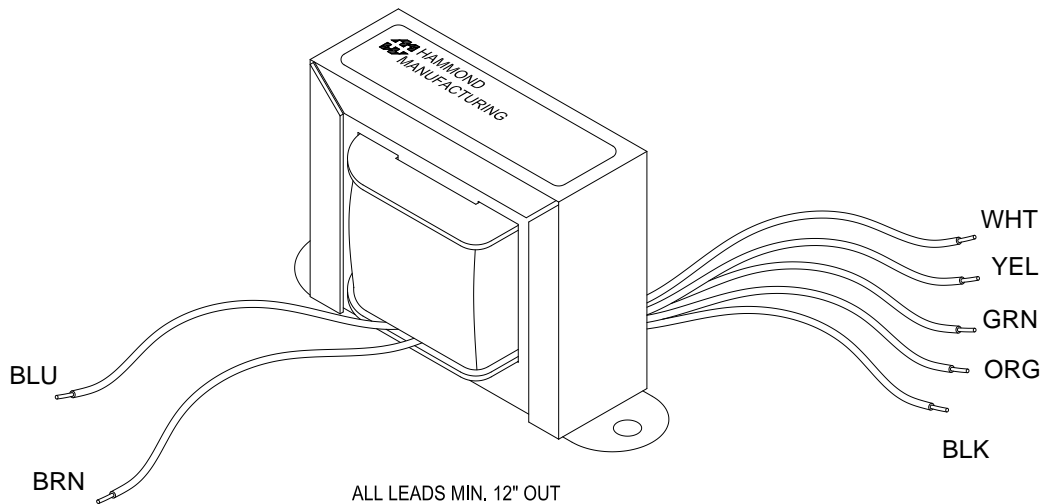




125ESE

UNIVERSAL SINGLE ENDED TUBE OUTPUT TRANSFORMER

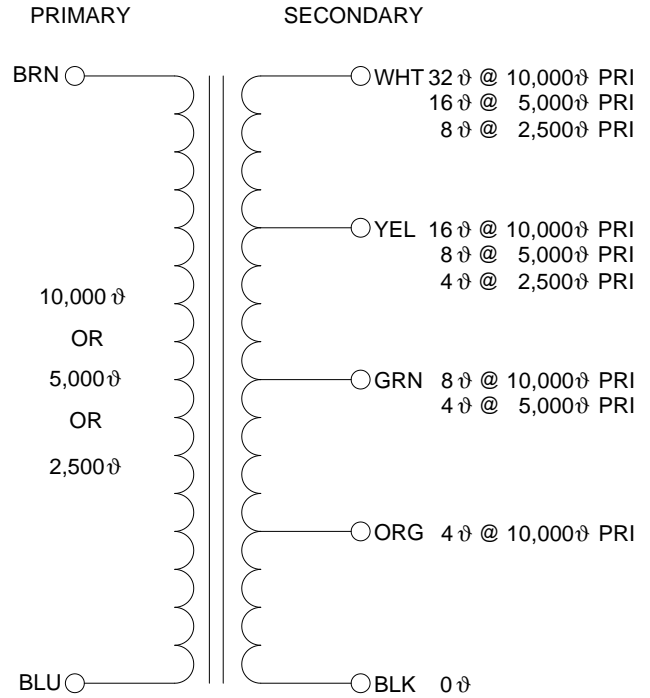
-] Designed for general purpose or replacement use (not Hi-Fi), in single ended, tube output circuits.
-] Frequency response: 100 Hz. - 15 KHz at full rated power (see graphs for detailed response).
-] For full frequency response (20 Hz. to 20 KHz.) - see our 1627-1642 Series.
-] For push-pull output 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 | 15 Watts |
| Max. DC Bias | 80 mA |
| Primary - DCR | |
| Blue - Brown | 103.0 \varnothing |
| Secondary DCR | |
| Black - Orange | 167 m \varnothing |
| Black - Green | 225 m \varnothing |
| Black - Yellow | 297 m \varnothing |
| Black - White | 412 m \varnothing |
| Inductance @ 1.0 kHz, 1.0 V OC | |
| Primary - Blue - Brown | 5.43 Hy |
| Sec - Black - Orange | 3.70 mH |
| Sec - Black - Green | 8.20 mH |
| Sec - Black - Yellow | 16.2 mH |
| Sec - Black - White | 32.1 mH |
| Impedance @ 1.0 kHz, 1.0 V OC | |
| Primary - Blue - Brown | 33.8 K \varnothing |
| Sec - Black - Orange | 22.8 \varnothing |
| Sec - Black - Green | 49.5 \varnothing |
| Sec - Black - Yellow | 98.0 \varnothing |
| Sec - Black - White | 200.0 \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°C |

Schematic and Hook Up Data



HAMMOND MANUFACTURING™ **125ESE**

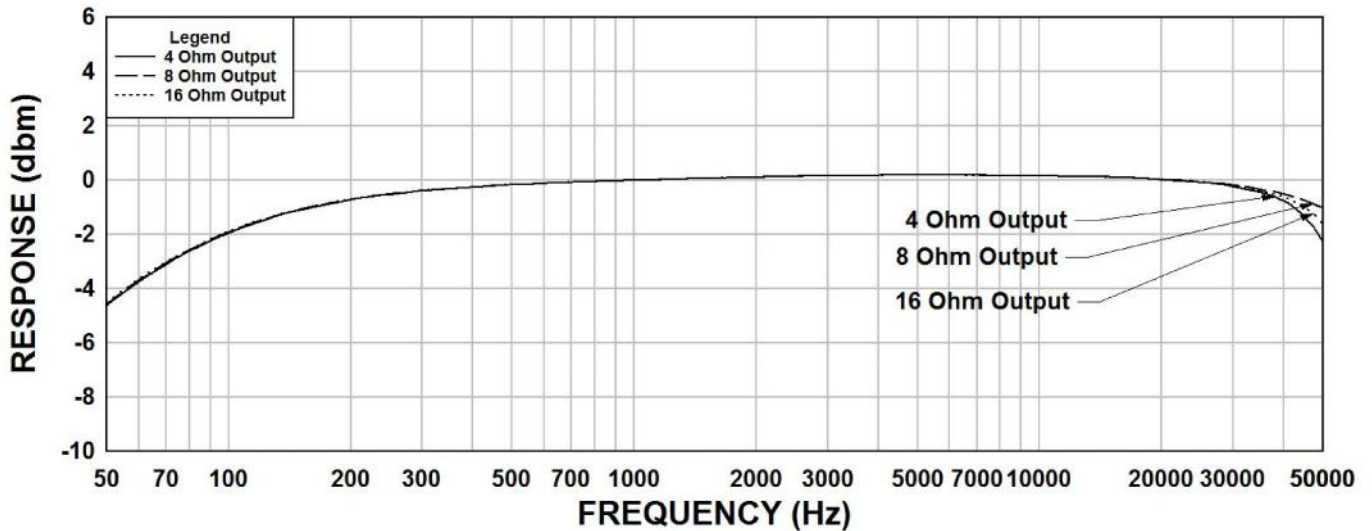
SINGLE ENDED AUDIO 15W 80mA DC

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

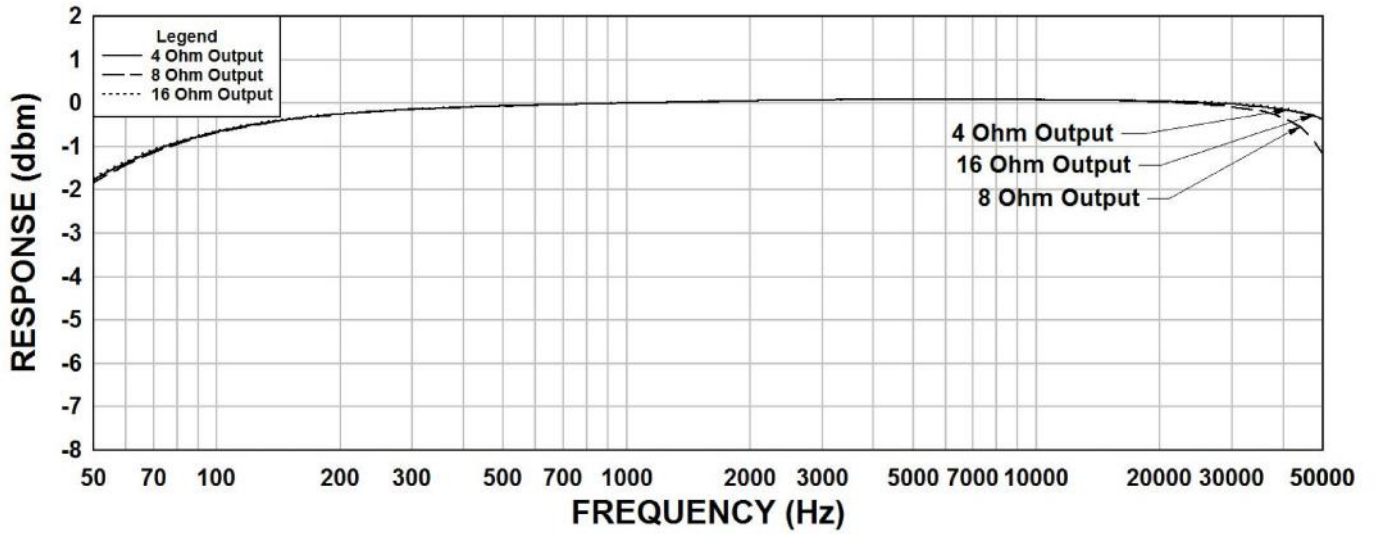
SEC: 4, 8, 16, 32 OHM

DATE CODE MADE IN CANADA

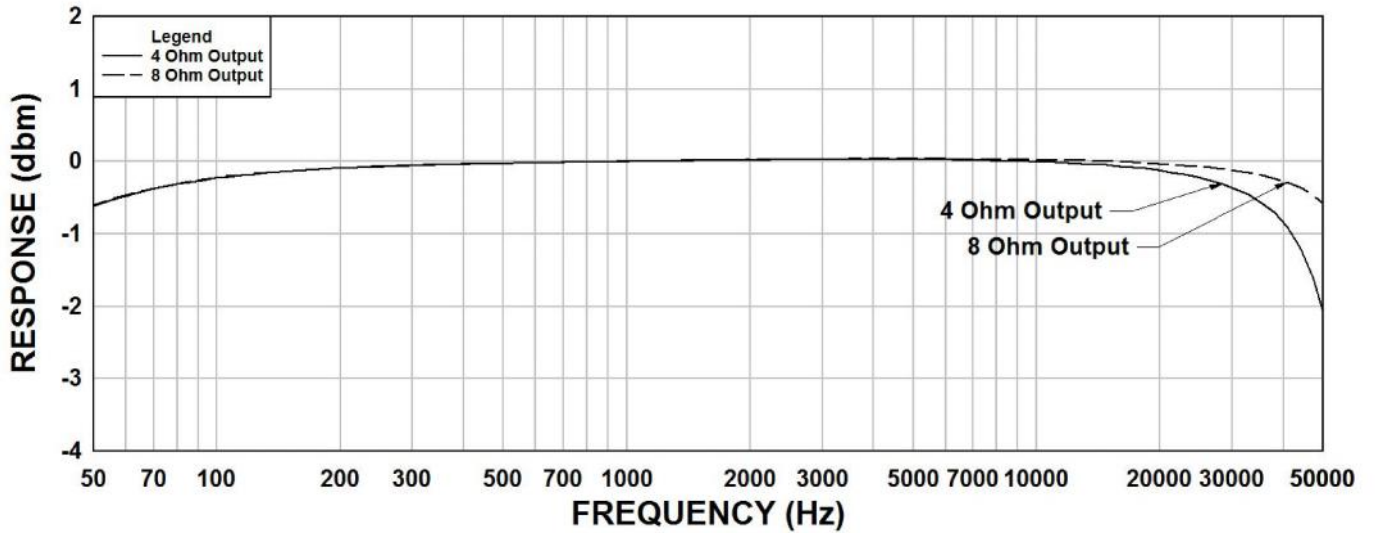
125ESE Frequency Response 10K Ω



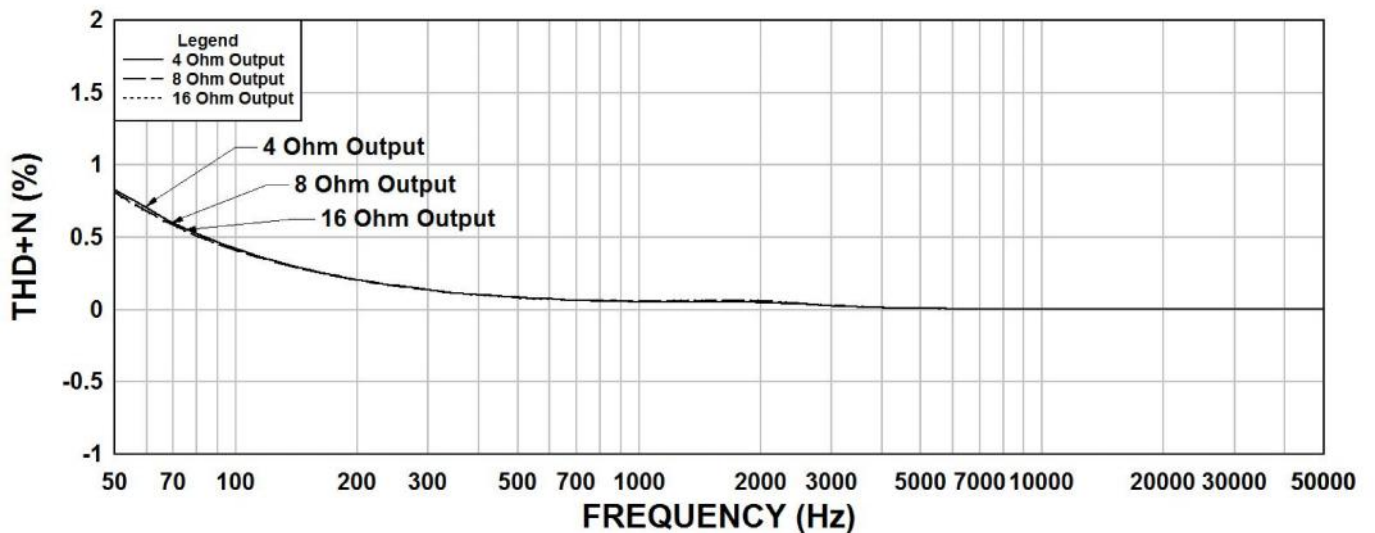
125ESE Frequency Response $R_s=5K\Omega$



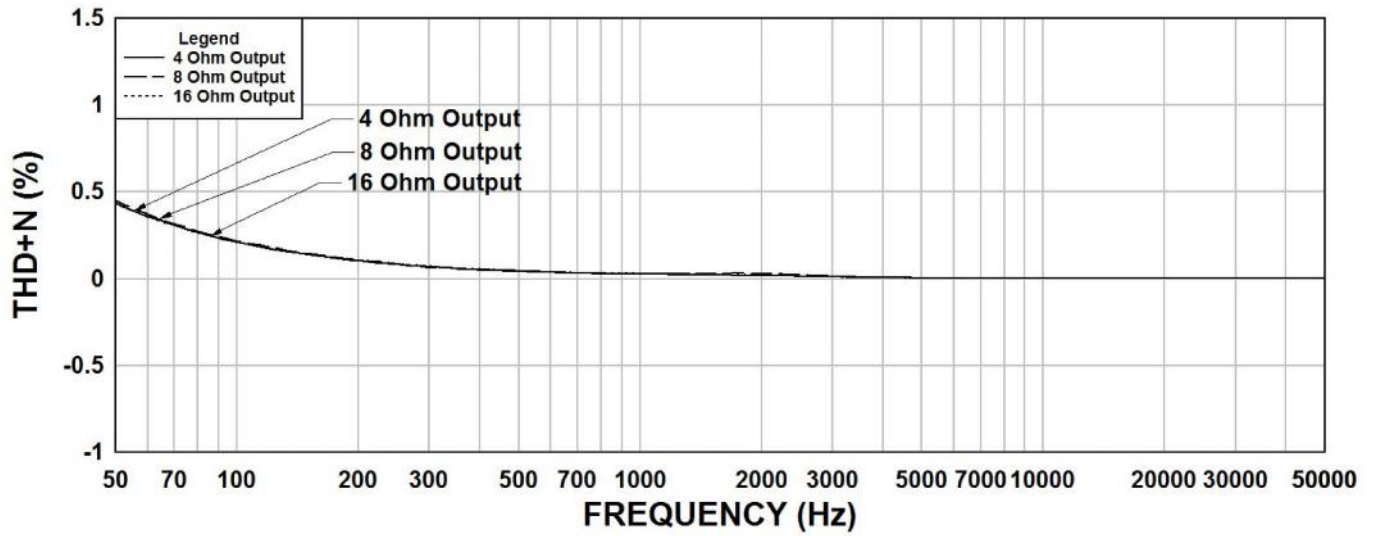
125ESE Frequency Response $R_s=2500\Omega$



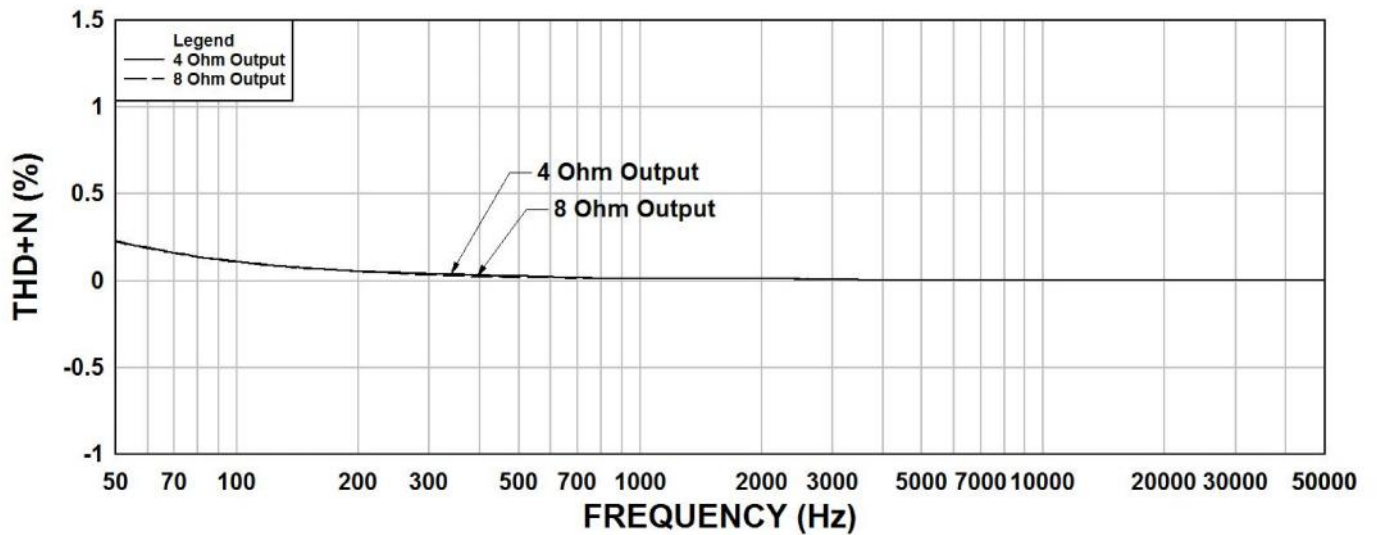
125ESE THD+N $R_s=10K\Omega$



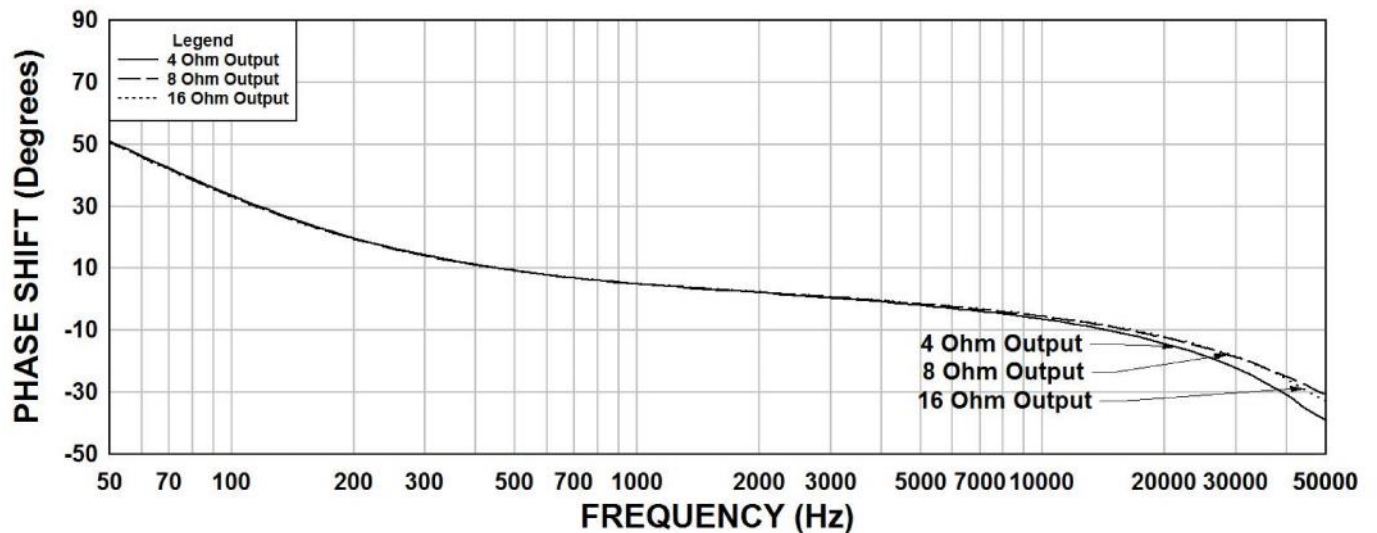
125ESE THD+N $R_s=5K\Omega$



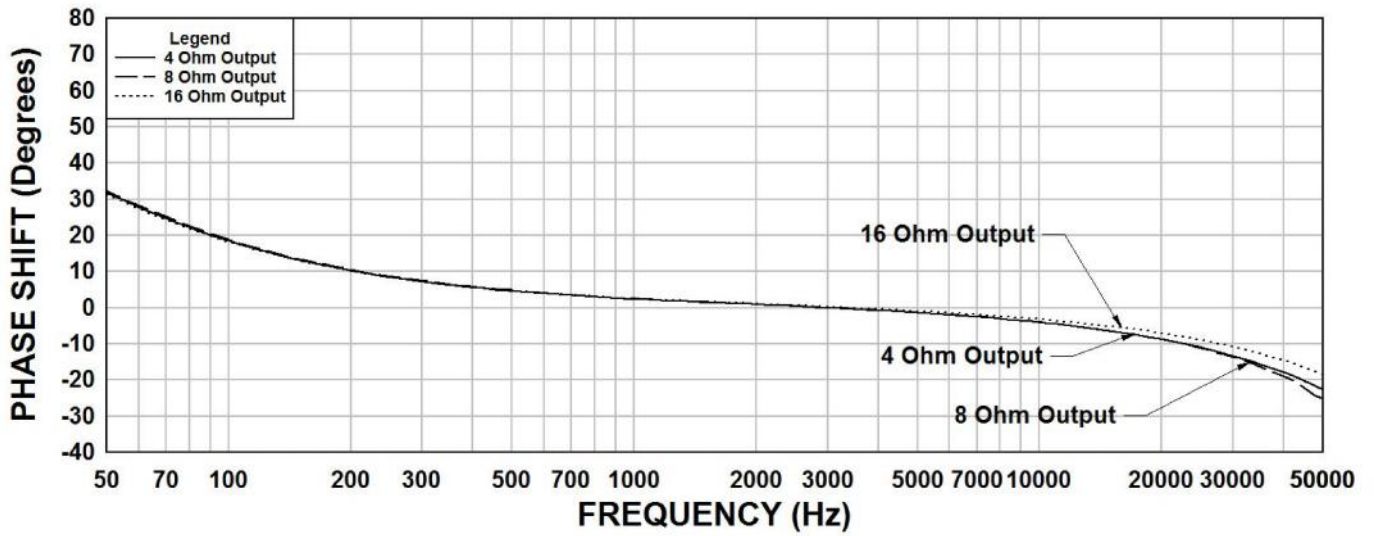
125ESE THD+N $R_s=2500\Omega$



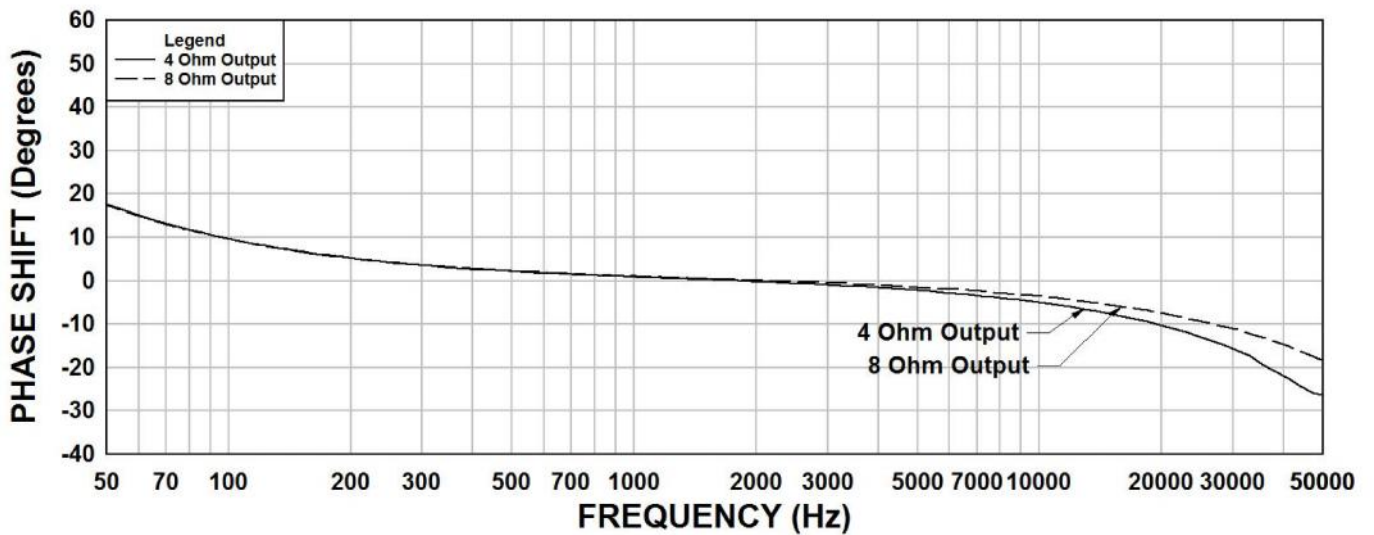
125ESE Phase Shift $R_s=10K\Omega$



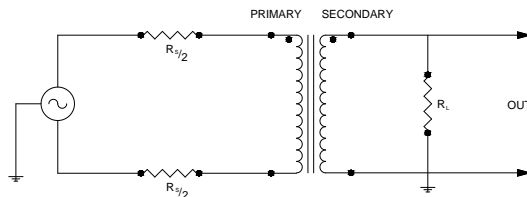
125ESE Phase Shift $R_s=5K\Omega$



125ESE 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.