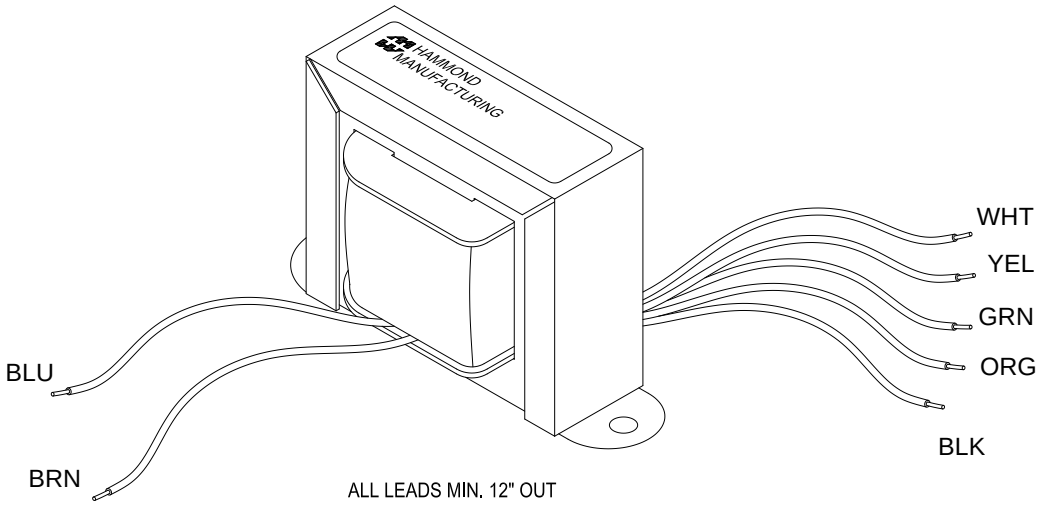
Hammond Mfg. Co. Ltd., Electronics Division

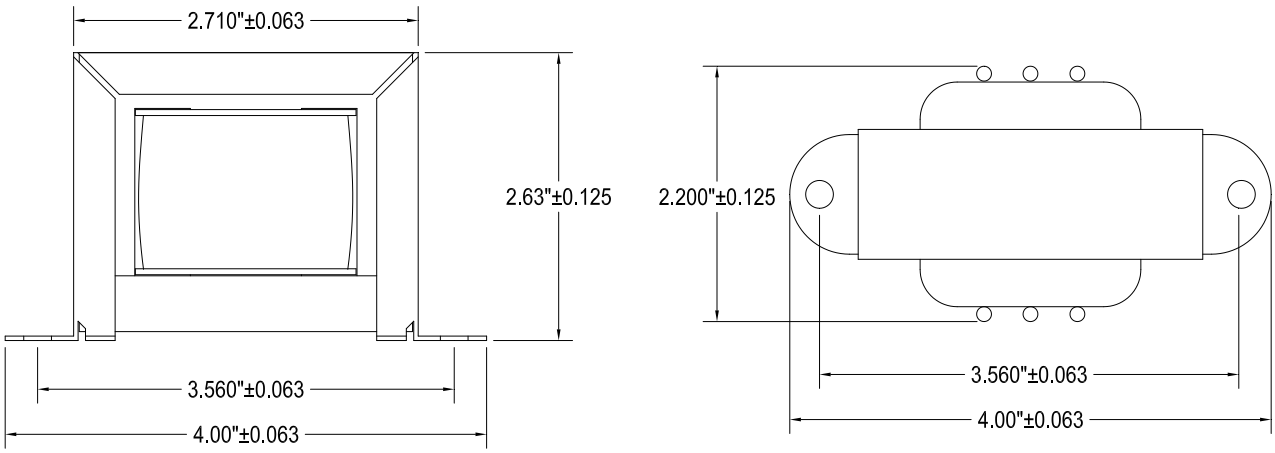
www.hammondmfg.com

125DSE

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.

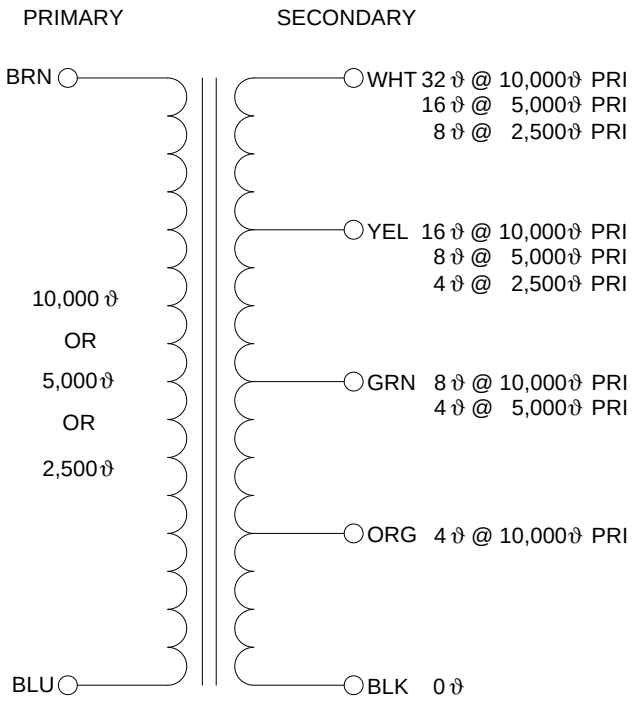




ELECTRICAL SPECIFICATIONS**

Characteristic	Typical
Input Impedance	2500 - 10000 ϑ
Output Impedance	4/8/16/32 ϑ
Output Power	10 Watts
Max. DC Bias	70 mA
Primary - DCR	
Blue – Brown	126.5 ϑ
Secondary DCR	
Black – Orange	238 mϑ
Black – Green	315 mϑ
Black – Yellow	438 mϑ
Black – White	600 mϑ
Inductance	@ 1.0 kHz, 1.0 V OC
Primary – Blue – Brown	4.48 Hy
Sec – Black – Orange	3.48 mH
Sec – Black – Green	6.65 mH
Sec – Black – Yellow	14.0 mH
Sec – Black – White	27.4 mH
Impedance	@ 1.0 kHz, 1.0 V OC
Primary – Blue – Brown	28.3 Kϑ
Sec – Black – Orange	21.8 ϑ
Sec – Black – Green	44.3 ϑ
Sec – Black – Yellow	92.0 ϑ
Sec – Black – White	180.0 ϑ
Frequency Response	See graphs for specific response, Typ. ⌇ 1.0db from 100Hz to 15KHz
Dielectric Strength	1500Vrms
Temperature Range	-40 To 105⌈C

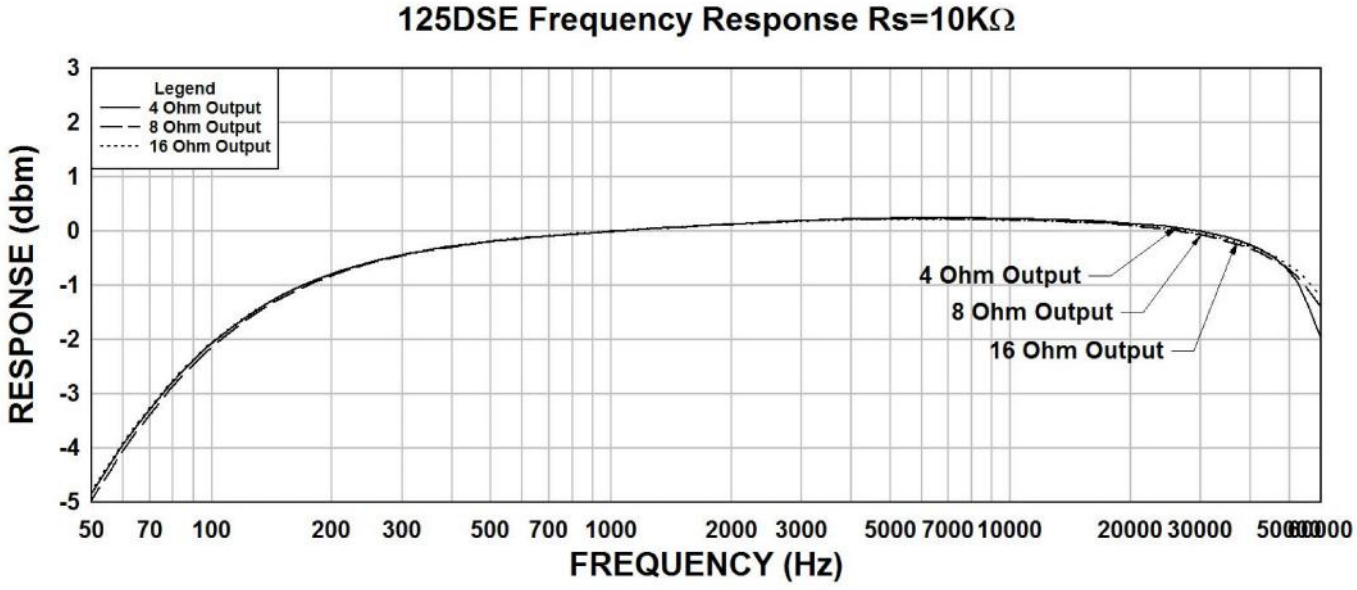
Schematic and Hook Up Data



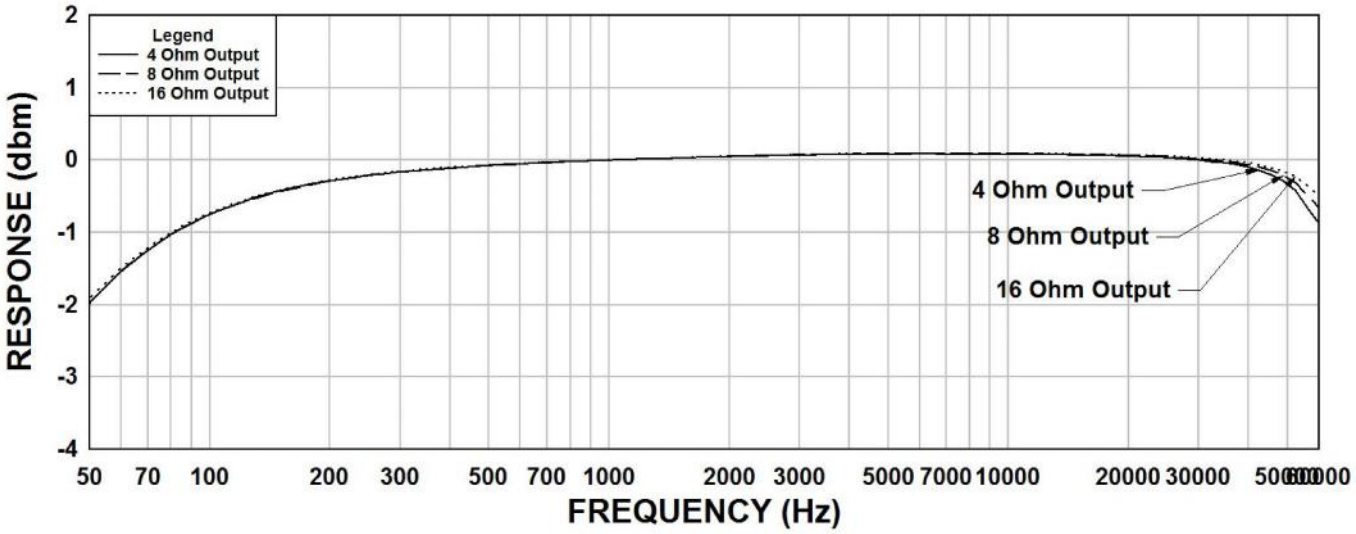
HAMMOND MANUFACTURING™ 125DSE

SINGLE ENDED AUDIO 10W 70mA DC
PRI: 10,000; 5,000; 2,500 OHM
SEC: 4, 8, 16, 32 OHM

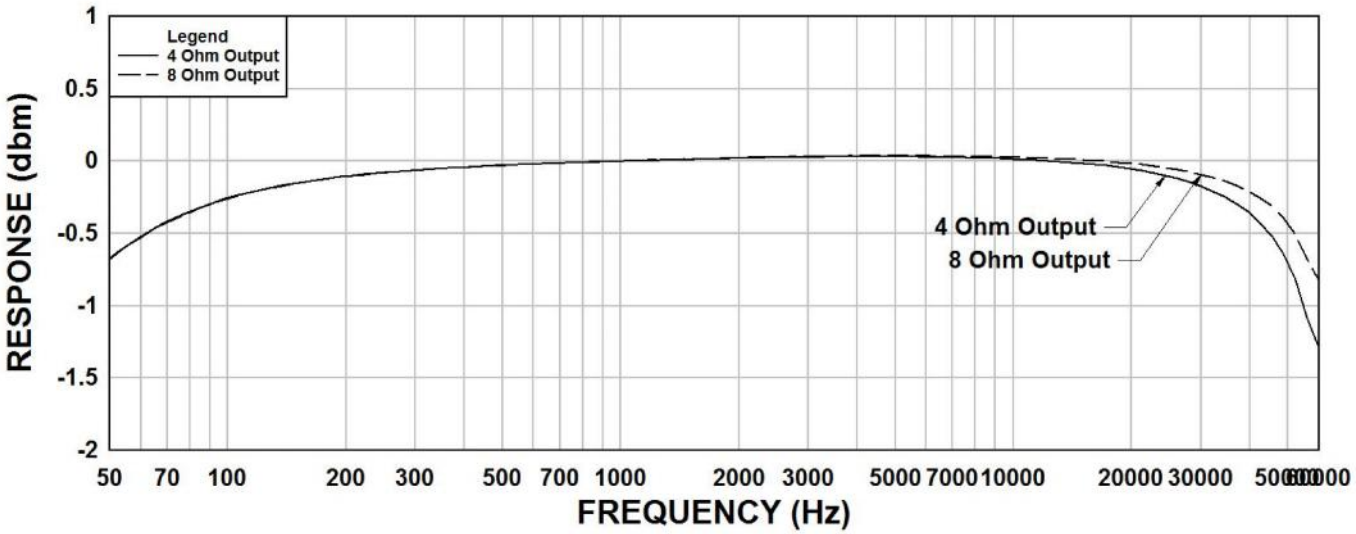
DATE CODE MADE IN CANADA



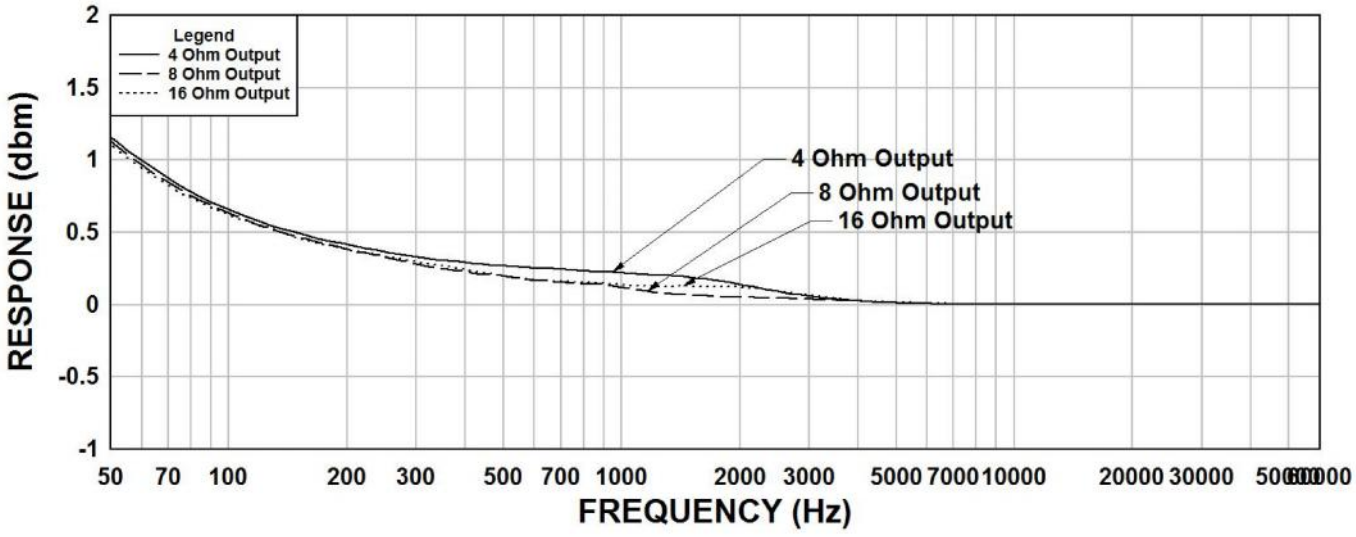
125DSE Frequency Response Rs=5KΩ



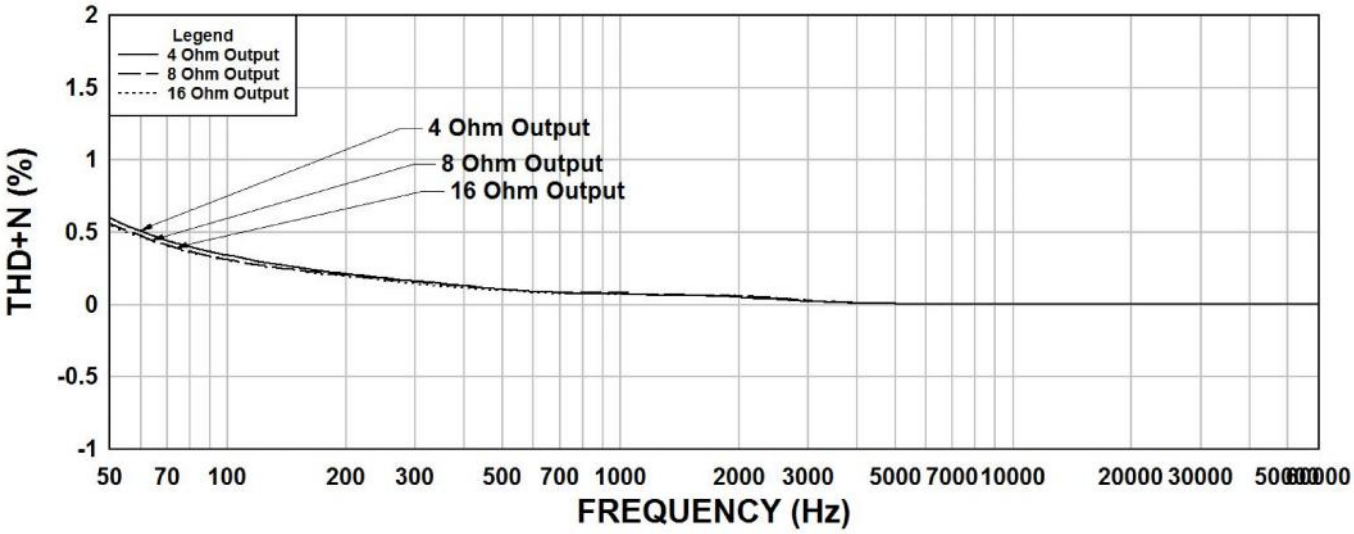
125DSE Frequency Response Rs=2500Ω



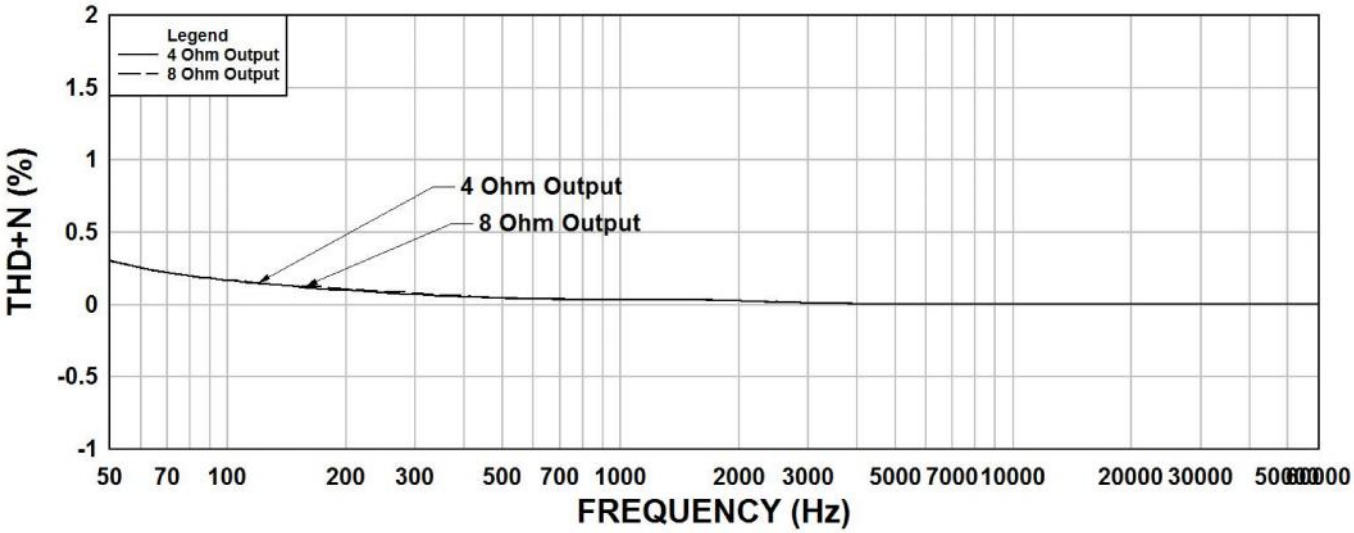
125DSE THD+N 10KΩ



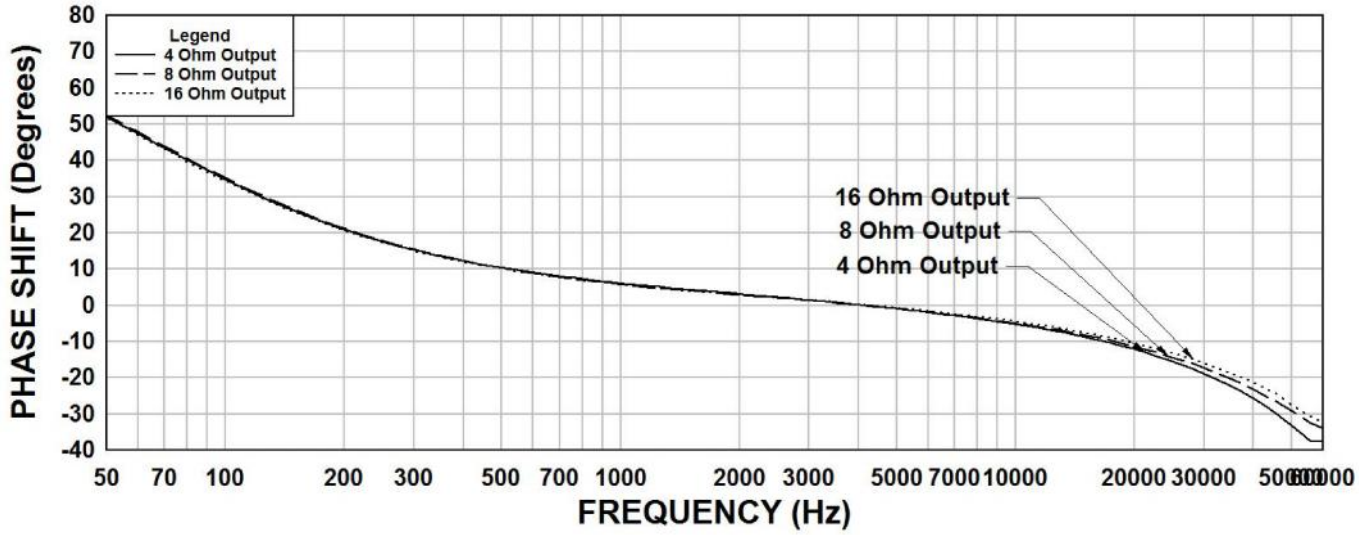
125DSE THD+N Rs=5KΩ



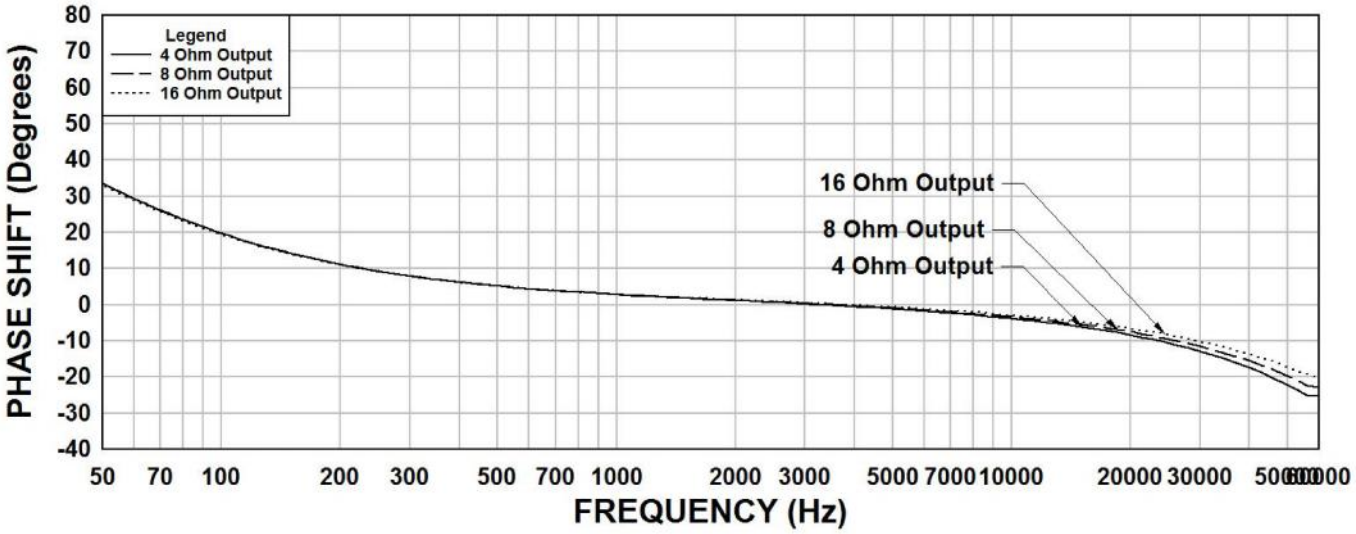
125DSE THD+N Rs=2500Ω



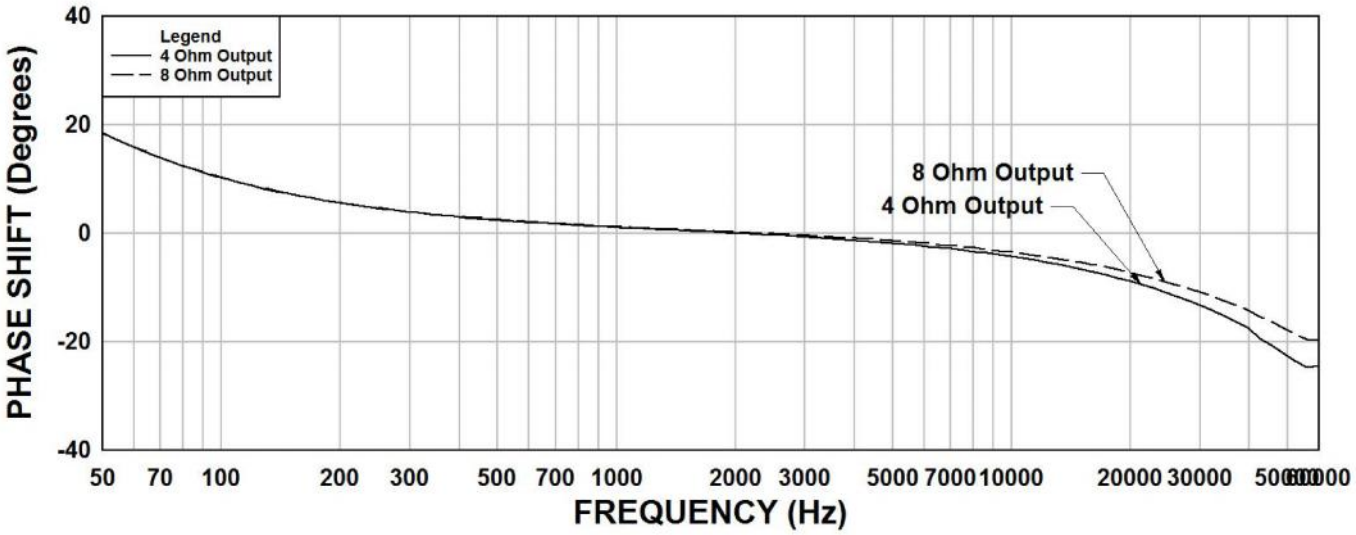
125DSE Phase Shift 10KΩ



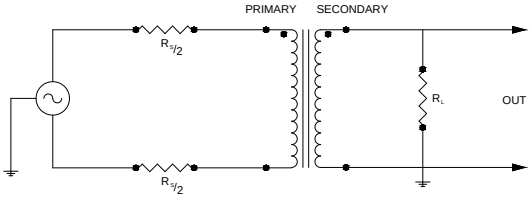
125DSE Phase Shift Rs=5KΩ



125DSE Phase Shift Rs=2500Ω



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.