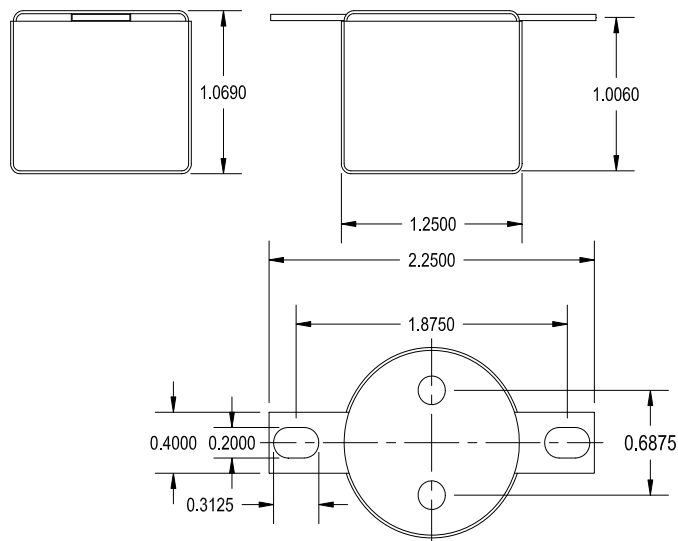


1140-MS-B

MICROPHONE ISOLATION TRANSFORMER
1:1:1 TURNS RATIO WITH DUAL SHIELDS

This transformer provides isolation for a standard 150Ω microphone source into a 1000Ω microphone pre amp. This can be used as a straight isolation transformer or in a typical 3 way splitter application. It also has a wide bandwidth, and excellent shielding from the mu metal can.



ELECTRICAL SPECIFICATIONS

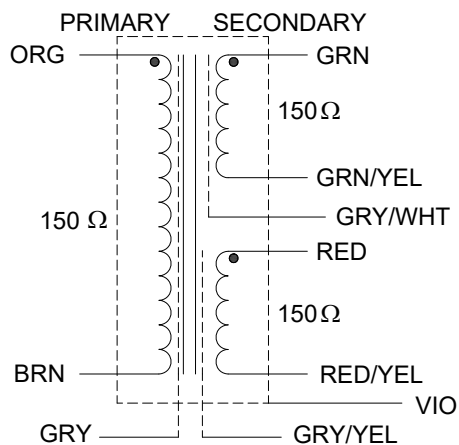
Characteristic	Conditions	Typical
Input Impedance		150 Ω
Output Impedance		150/150 Ω
Primary Input Impedance	@ 1kHz -20dbu Test Circuit 3	560KΩ
Secondary Output Impedance	@ 1kHz -20dbu Test Circuit 4	220Ω
Maximum output Level	@ 20Hz Test Circuit 1	+2.0db
DCR		
Primary	@20°C	48.0 Ω
Secondary	@20°C	48.0/48.0 Ω
Frequency Response	@ 20 Hz, -20 dbu, Test Circuit 3	-0.20db
	@ 20 kHz, -20 dbu, Test Circuit 3	0.02db
Turns ratio		1:1:1
Common Mode Rejection Level	@ 60 Hz Test Circuit 2	120db
	3kHz Test Circuit 2	90db
THD	@ 1kHz -20 dbu Test Circuit 1	0.002%
	@ 20Hz -20 dbu Test Circuit 1	0.10%
Phase Shift	@ 20 Hz Test Circuit 1	2.5°
	@ 20 kHz Test Circuit 1	-5.0°
Capacitance	Primary to Shield and Case	500pf
	Secondary to Shield and Case	500pf
Dielectric Strength		500 Vrms



1140-MS-B

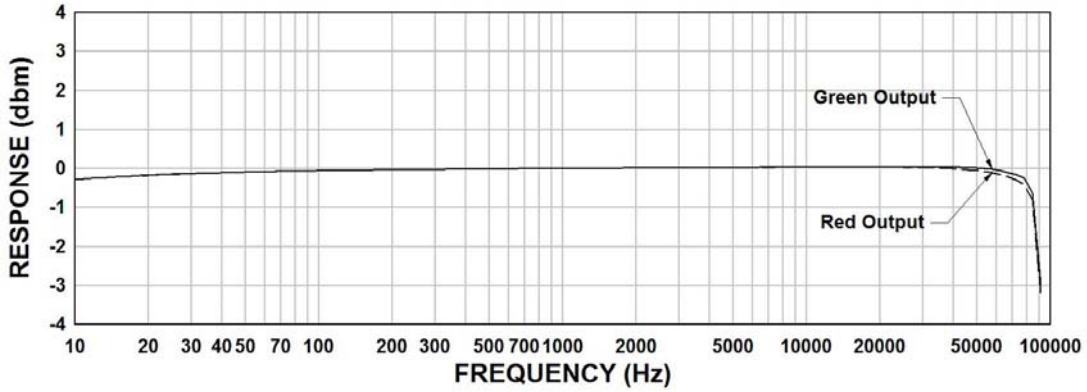
PRI:ORG - BRN:150 Ω GRY: SHIELD
 SEC:GRN - GRN/YEL:150 Ω GRY/WHT: SHIELD
 SEC:RED - RED/YEL:150 Ω GRY/YEL: SHIELD
 VIO: CAN GROUND
 MADE IN CANADA DATE

1140 - MS - B



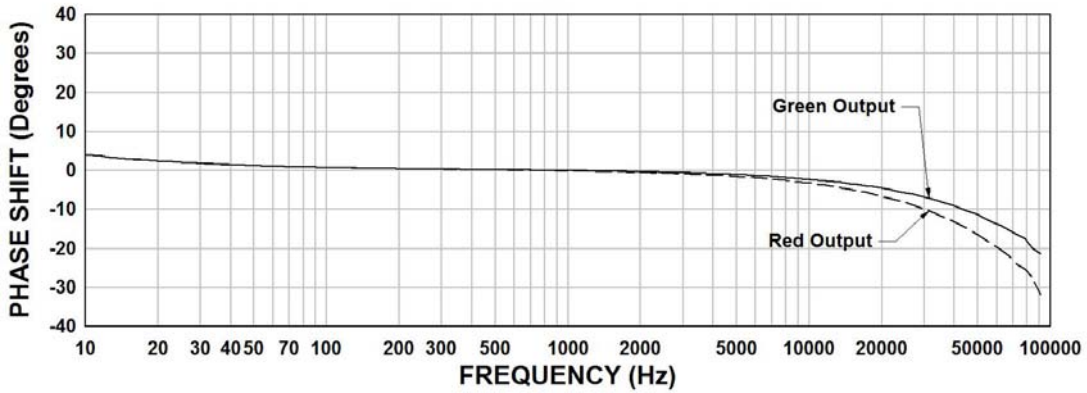
1140-MS-B FREQUENCY RESPONSE

Input Level -20dbu
 $R_s = 150\Omega$, $R_{L1} = 1K\Omega$, $R_{L2} = 1K\Omega$



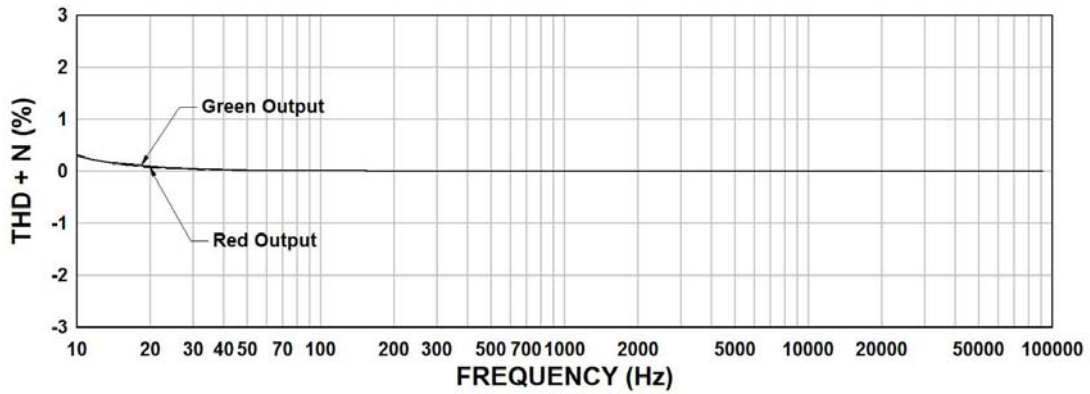
1140-MS-B PHASE SHIFT

Input Level -20dbu
 $R_s = 150\Omega$, $R_{L1} = 1K\Omega$, $R_{L2} = 1K\Omega$

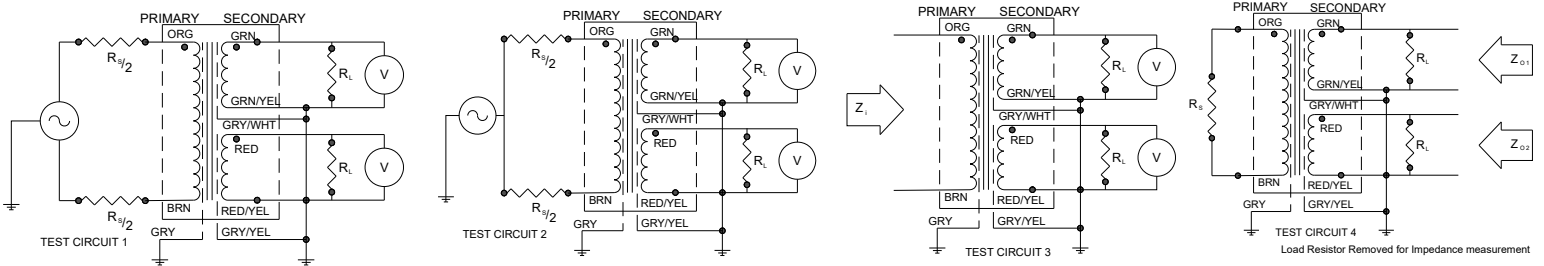


1140-MS-B THD + N

Input Level -20dbu
 $R_s = 150\Omega$, $R_{L1} = 1K\Omega$, $R_{L2} = 1K\Omega$



TYPICAL TEST CIRCUIT



Measurement instruments: Hp4192a Impedance Analyzer; Hp3456a DVM; Keithley 2002 DVM; D scope series iii audio analyzer

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