

1140-MN-B

CHASSIS MOUNT – SHIELDED
1:5 MICROPHONE STEP UP TRANSFORMER

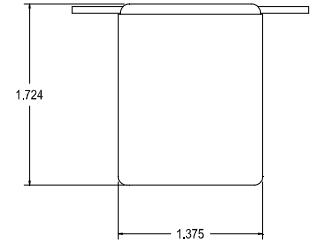
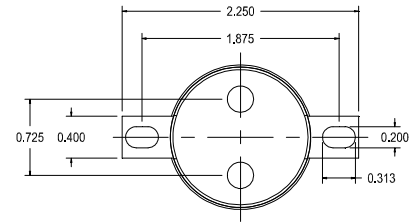
This transformer offers a high step up ratio and operates in the 20 Hz to 20 KHz range.

The mu metal can provides excellent shielding from a broad range of external sources. The nickel core provides high permeability combined with low losses for a very wide band width

Typical applications for input stage on vacuum tube or FET style amplifiers.

ELECTRICAL SPECIFICATIONS

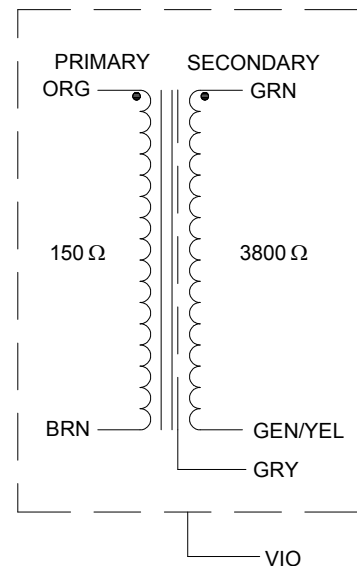
Characteristic	Conditions	Typical
Input Impedance		150 Ω
Output Impedance		3800 Ω
Primary Input Impedance	@ 1kHz -20dbu Test Circuit 3	1.7K Ω
Secondary Output Impedance	@ 1kHz -20dbu Test Circuit 4	4.6K Ω
Maximum input Level	@ 20Hz RL = 600 Ω	+7.0dbu
DCR		
Primary	@20°C	17.25 Ω
Secondary	@20°C	450 Ω
Frequency Response	@ 20 Hz, -20 dbu, Test Circuit 3	-0.04db
	@ 20 kHz, -20 dbu, Test Circuit 3	0.01db
Turns ratio		1:5
Common Mode Rejection Level	@ 60 Hz Test Circuit 2	90db
	3kHz Test Circuit 2	75db
THD	@ 1kHz -20 dbu Test Circuit 1	0.015%
	@ 20Hz -20 dbu Test Circuit 1	0.001%
Phase Shift	@ 20 Hz Test Circuit 1	0.6°
	@ 20 kHz Test Circuit 1	6.0°
Capacitance	Primary to Shield and Case	780pf
	Secondary to Shield and Case	450pf
Dielectric Strength		500 Vrms



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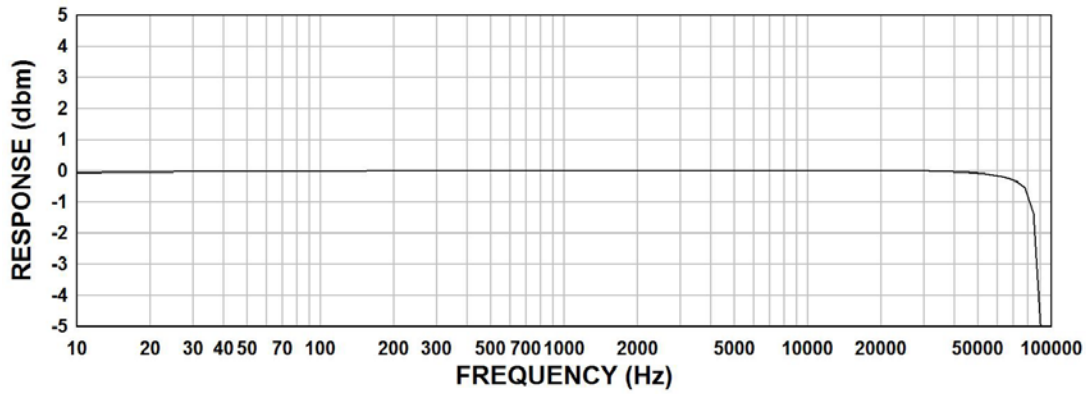
ORG - BRN: 150 Ω
GRN - GRN/YEL: 3800 Ω
GRY: SHIELD VIO: CAN
MADE IN CANADA DATE

SCHEMATIC DIAGRAM



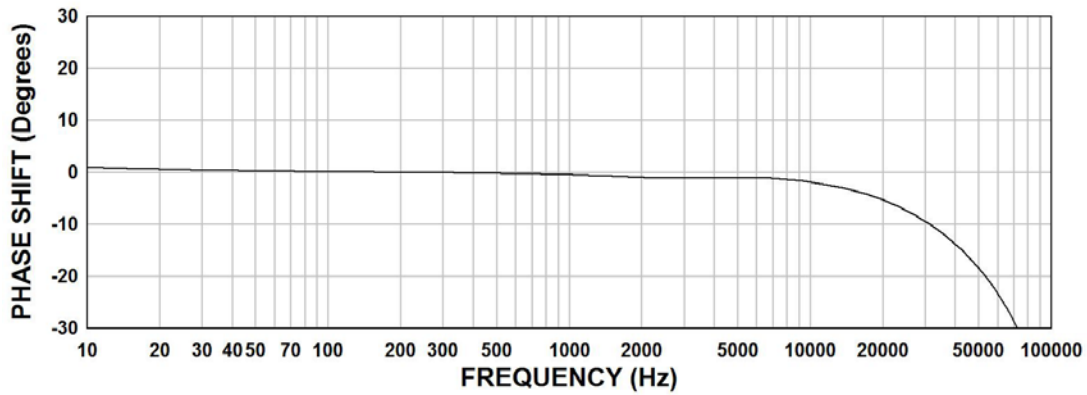
1140-MN-B Frequency Response

Input Level -20dbu
Rs= 150Ω, RL= 3800Ω



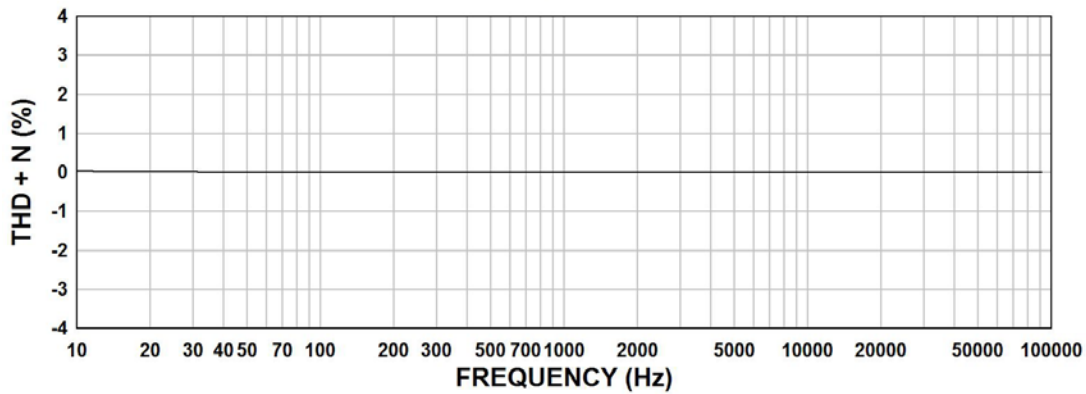
1140-MN-B Phase Shift

Input Level -20dbu
Rs= 150Ω, RL= 3800Ω

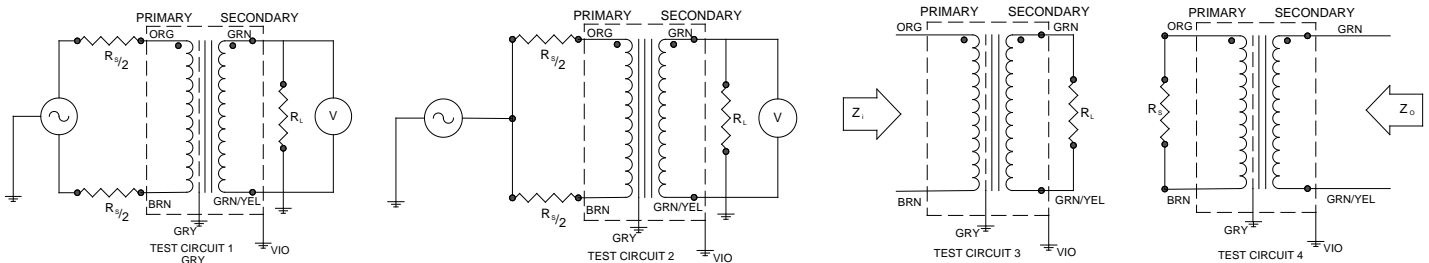


1140-MN-B THD+N

Input Level -20dbu
Rs= 150Ω, RL= 3800Ω



TYPICAL TEST CIRCUIT



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

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