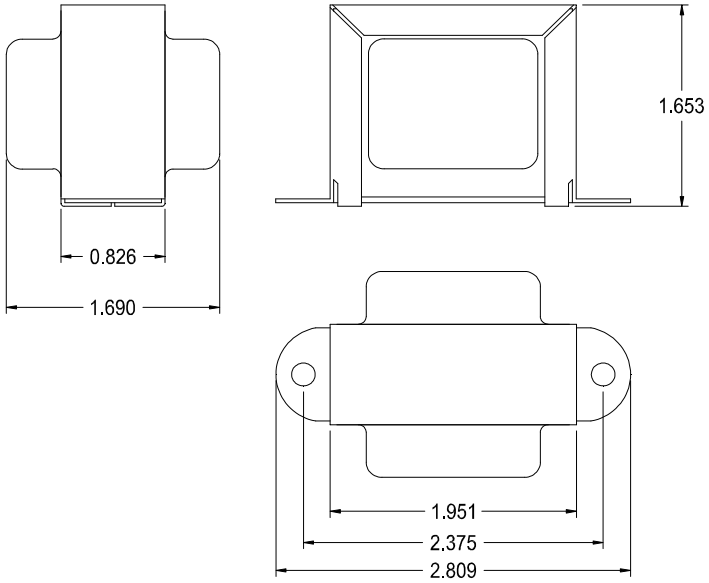
HAMMOND MANUFACTURING T.M.

Hammond Mfg. Co. Ltd., Electronics Division

www.hammondmfg.com

1140-LU-A

CHASSIS MOUNT
LINE OUTPUT STEP DOWN TRANSFORMER

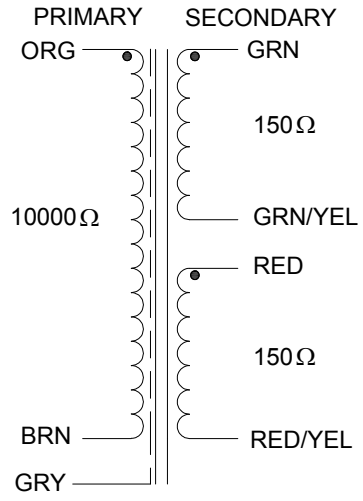


Designed for high performance tube line output stages, the 80% Ni core delivers a wide bandwith with low distortion at levels up to +23 dbu @ 20Hz into a 600Ω load.
The transformer appears as a high impedance load to vacuum tubes.
The secondary of the transformer is split to operate at a 4:1 ratio or 8:1 ratio
Due to the properties of the Ni core, the drive signal should have no DC component.

ELECTRICAL SPECIFICATIONS

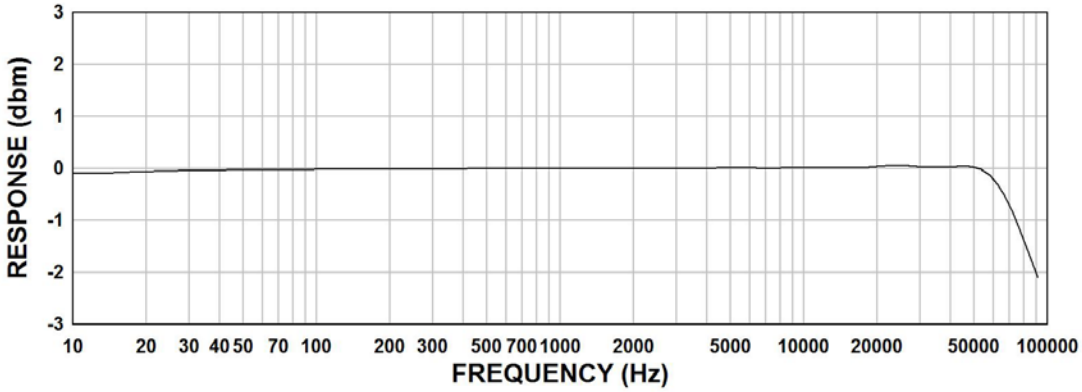
Characteristic	Conditions	Typical
Input Impedance		10000 Ω
Output Impedance		150/600 Ω
Primary Input Impedance	@ 1kHz 0dbu Test Circuit 3	11.5KΩ
Secondary Output Impedance	@ 1kHz 0dbu Test Circuit 4	100Ω
Maximum intput Level	@ 20Hz RL = 600Ω	+23dbu
DCR		
Primary	@20ºC	610.0 Ω
Secondary	@20ºC	45 Ω
Frequency Response	@ 20 Hz, 0 dbu, Test Circuit 3	-0.06db
	@ 20 kHz, 0 dbu, Test Circuit 3	+0.04db
Turns ratio		4.08:1 / 8.16:1
Common Mode Rejection Level	@ 60 Hz, 0 dbu, Test Circuit 2	105db
	3kHz, 0 dbu, Test Circuit 2	90db
THD	@ 1kHz 4 dbu Test Circuit 1	0.003%
	@ 20Hz 4 dbu Test Circuit 1	0.001%
Phase Shift	@ 20 Hz Test Circuit 1	1.5º
	@ 20 kHz Test Circuit 1	10.0º
Capacitance	Primary to Shield and Case	1nf
	Secondary to Shield and Case	800pf
Dielectric Strength		500 Vrms

1140-LU-A
PRI:BRN - ORG: 10000Ω GRY: SHIELD
SEC:GRN - GRN/YEL: 150Ω
RED - RED/YEL: 150Ω
GRN - RED/YEL: 600Ω
MADE IN CANADA DATE



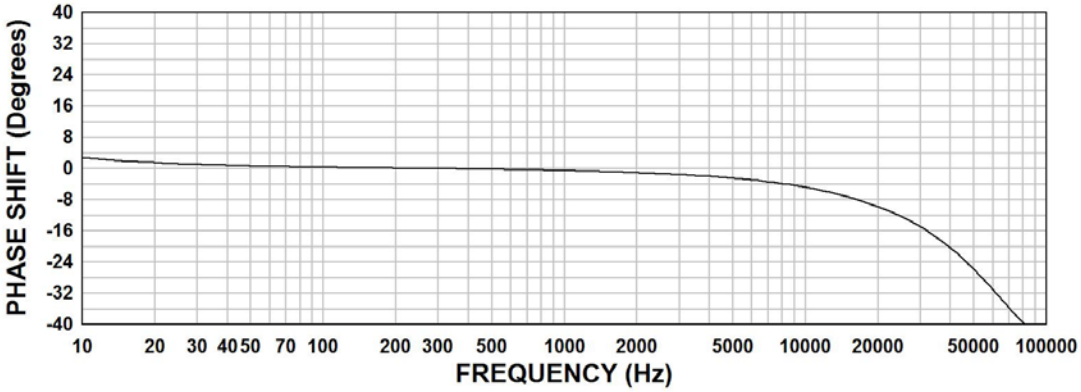
1140-LU-A FREQUENCY RESPONSE

Input Level 0 dBu
Rs = 50Ω, RL = 600Ω



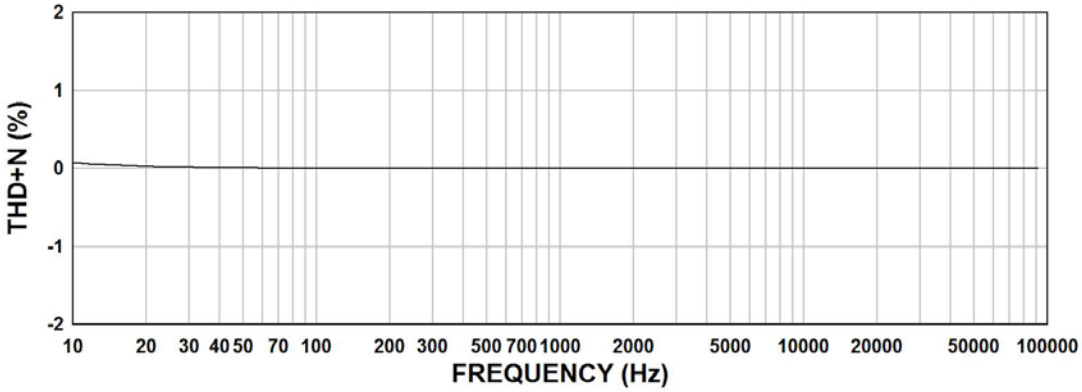
1140-LU-A PHASE SHIFT

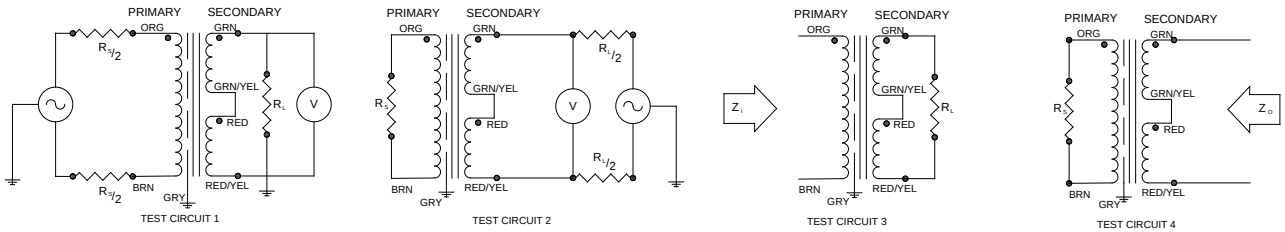
Input Level 0 dbu
Rs = 50Ω, RL = 600Ω



1140-LU-A THD+N

Input Level 4 dbu
Rs = 600Ω, RL = 600Ω





Measurement instruments
Hp4192a impedance analyzer
Hp3456a DVM
Keithley 2002 DVM
D scope series iii audio analyzer