HAMMOND MANUFACTURING T.M.

Hammond Mfg. Co. Ltd., Electronics Division

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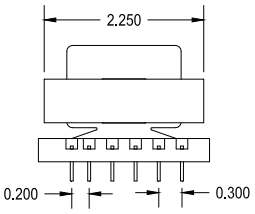
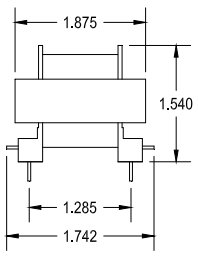
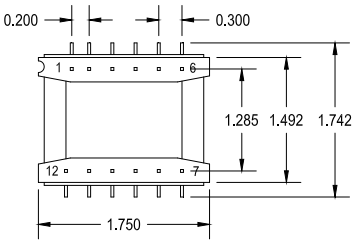
1140-LU-GPC

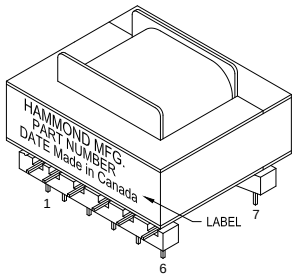
PRINTED CIRCUIT BOARD MOUNT
LINE OUTPUT TRANSFORMER





This transformer is designed with bi-filar windings and an 80% Ni core, which gives very low distortion levels and good output levels.
It can drive 600Ω loads up to +27dbu @ 20Hz.
Due to the properties of the Ni core, the drive signal should have no DC component and the source impedance should be as low as possible.

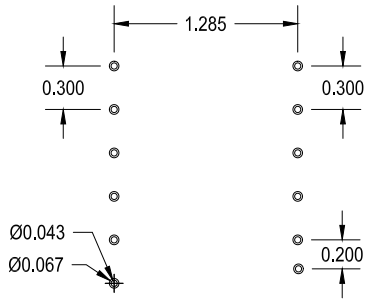




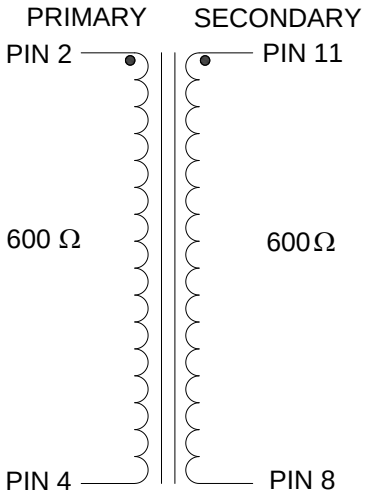
ELECTRICAL SPECIFICATIONS

Characteristic	Conditions	Typical
Input Impedance		600 Ω
Output Impedance		600 Ω
Primary Input Impedance	@ 1kHz 0dbu Test Circuit 3	680Ω
Secondary Output Impedance	@ 1kHz 0dbu Test Circuit 4	80Ω
Maximum input Level	@ 20Hz RL = 600Ω	+27 dbu
DCR		
Primary	@20ºC	40 Ω
Secondary	@20ºC	40 Ω
Frequency Response	@ 20 Hz, 0 dbu, Test Circuit 3	-0.02db
	@ 20 kHz, 0 dbu, Test Circuit 3	+0.02db
Turns ratio		1:1
Common Mode Rejection Level	@ 60 Hz, 0 dbu, Test Circuit 2	105db
	3kHz, 0 dbu, Test Circuit 2	75db
THD	@ 1kHz 4 dbu Test Circuit 1	0.01%
	@ 20Hz 4 dbu Test Circuit 1	0.001%
Phase Shift	@ 20 Hz Test Circuit 1	0.10º
	@ 20 kHz Test Circuit 1	-1.0º
Capacitance	Primary to Shield and Case	25nf
	Secondary to Shield and Case	80pf
Dielectric Strength		250 Vrms

PCB LAYOUT

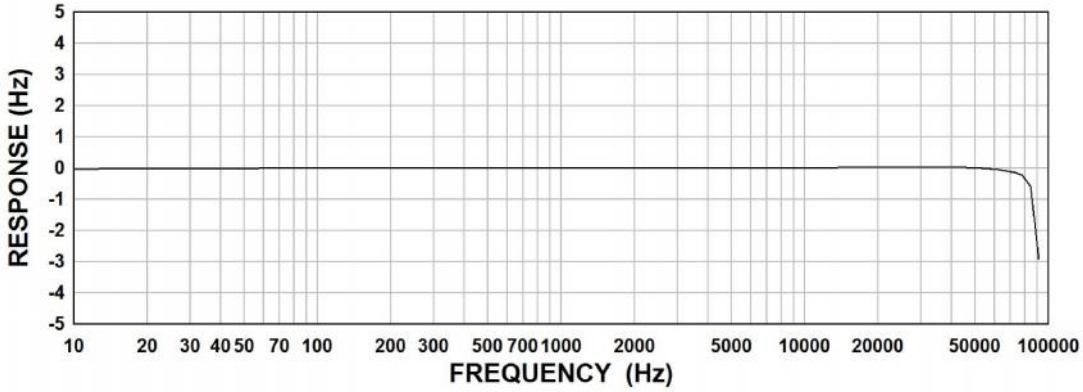


1140-LU-GPC
PRI:PIN 2 - PIN 4: 600 Ω
SEC:PIN 11 - PIN 8: 600 Ω
MADE IN CANADA DATE



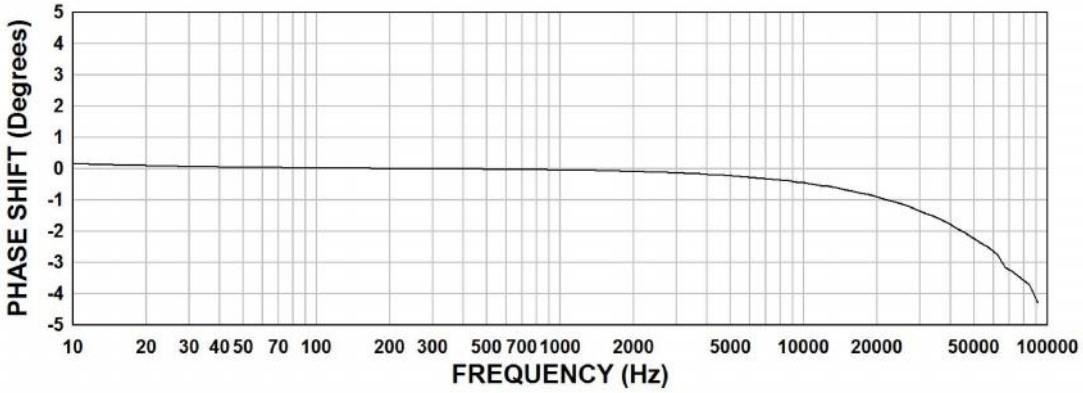
1140-LU-GPC FREQUENCY RESPONSE

Input Level 0 dBu
Rs = 0Ω, RL = 600Ω



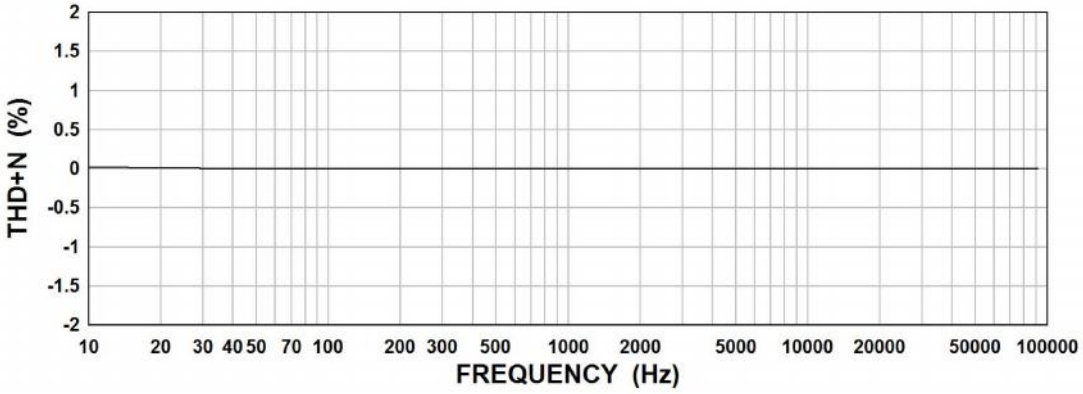
1140-LU-G PHASE SHIFT

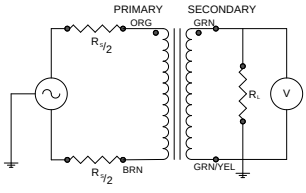
Input Level 0 dBu
Rs = 0Ω, RL = 600Ω



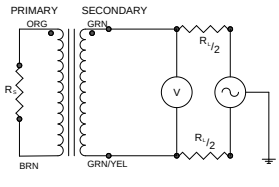
1140-LU-GPC THD+N

Input Level +4 dBu
Rs = 0Ω, RL = 600Ω

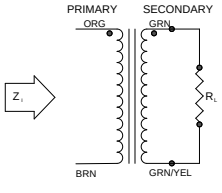




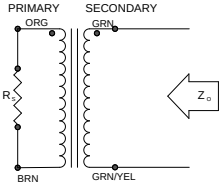
TEST CIRCUIT 1



TEST CIRCUIT 2



TEST CIRCUIT 3



TEST CIRCUIT 4

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