Reichenbach Engineering

RE-11P5

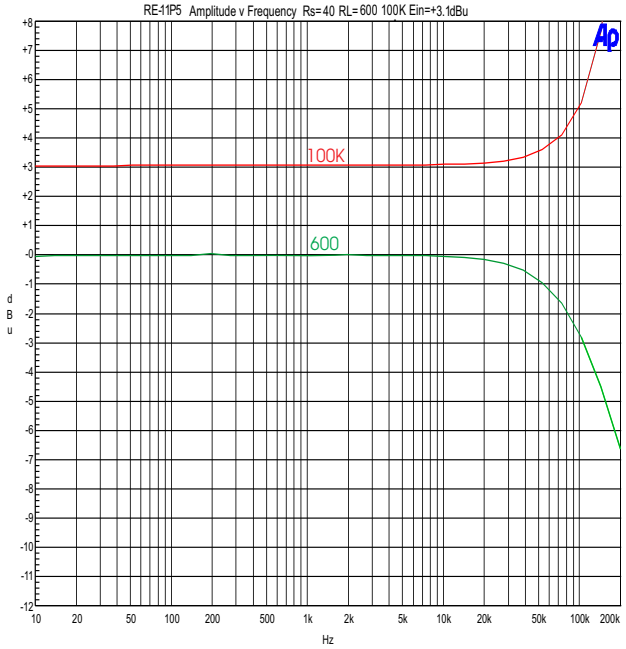
LINE INPUT TRANSFORMER

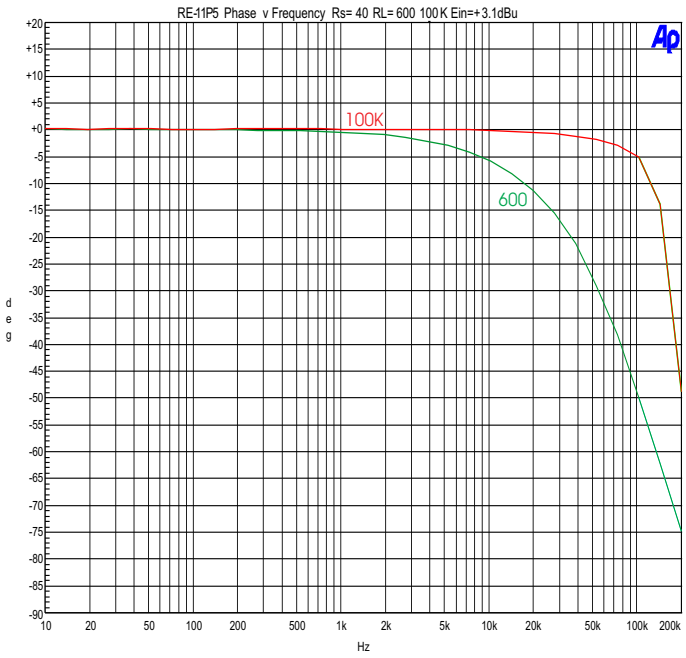
- Excellent for 600:600 through 10K
- Excellent bandwidth
- Excellent immunity to source impedance variances
- Very good CMRR (>115dB at 60Hz)
- 1:1 turns ratio
- Lead wires or printed circuit pins

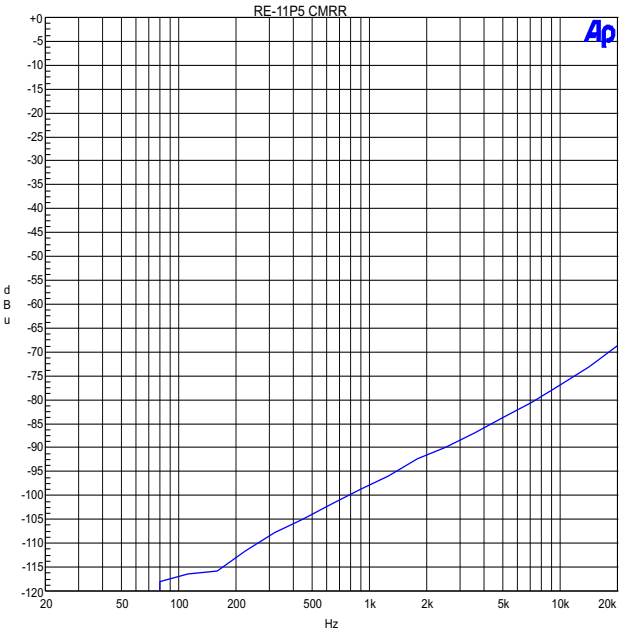
The RE-11P5 is used for line coupling applications. It works very well when loaded at 600 Ohms through at least 100K. Bandwidth is excellent. The Common Mode Rejection Ratio (CMRR) is greater than 115dB at 60Hz, making it a trusted option for very long cables operating at 600 Ohms. Its distortion characteristics are very good. It is available both in a printed circuit pin mounting package or with lead wires. It is encased in a μ-metal can thereby providing more than 30dB shielding from stray magnetic fields. As with all CineMag transformers, the drain wires from the internal foil shields between windings are all spot welded for maximum long term reliability.

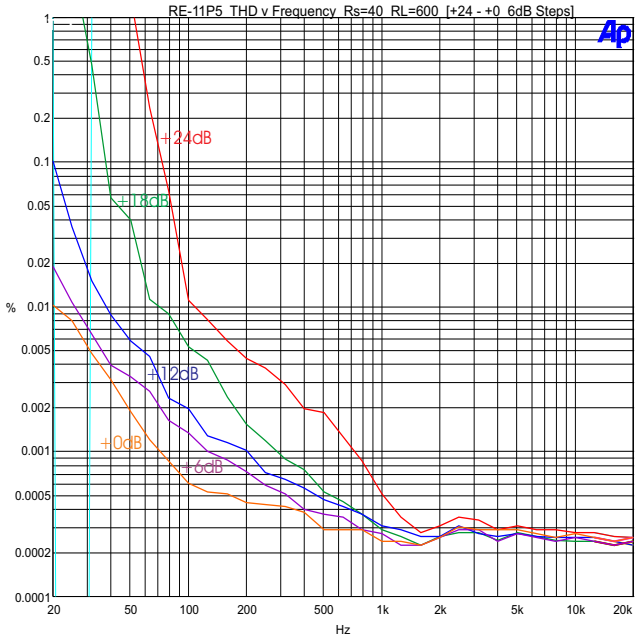
RE-11P5 / RE-11P5PC

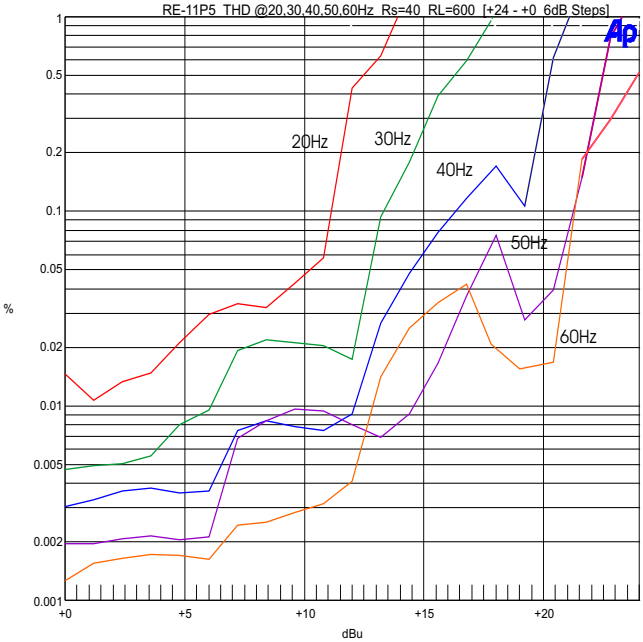
Parameter	Conditions	Typ
Turns Ratio Impedance Ratio		1:1 600:600
Distortion (THD+N%)	1 kHz, +24dBm R_L=600 Test Circuit 1 20 Hz, +10dBm R_L=600 Test Circuit 1	0.0005% 0.025%
Max 20 Hz input level	1.0%THD R_L=600 Test Circuit 1	+10dBm
Response, ref 1 kHz	20Hz R_L=600 Test Circuit 1 20kHz R_L=600 Test Circuit 1 -3 dB R_L=600 Test Circuit 1	-0.08dBm +0.15dBm 100 kHz
Phase Shift at 20 Hz Phase Shift at 20 kHz	Referenced to source generator Rs=40 R_L=600 Test Circuit 1	nil° -12°
CMRR	60 Hz Test Circuit 2 per IEE Std 389-¶19 1kHz est Circuit 2 per IEE Std 389- ¶19	>120dBu >95dBu
Operating Temp Range	Operation and storage	0° C Min 70° C Max
Max Soldering Temp (p.c.)	10 Seconds	270°C Max

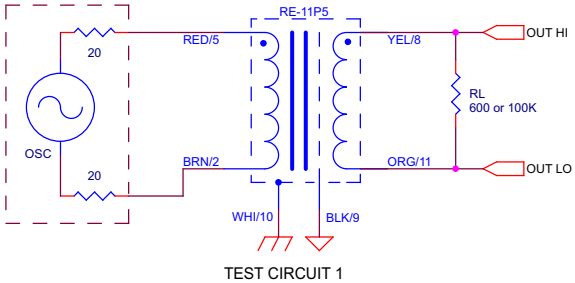

RE-11P5 Amplitude v Frequency Rs=40 RL=600 100K Ein=+3.1dBu
100K
600
dBu
Hz


RE-11P5 Phase v Frequency Rs= 40 RL= 600 100K Ein=+3.1dBu
100K
600
deg
Hz

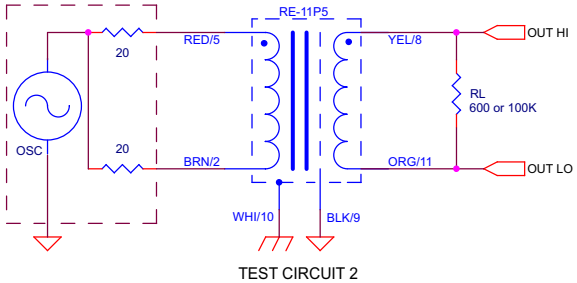

RE-11P5 CMRR
dBu
Hz


RE-11P5 THD v Frequency Rs=40 RL=600 [+24 - +0 6dB Steps]
+24dB
+18dB
+12dB
+0dB
+6dB
%
Hz


RE-11P5 THD @20,30,40,50,60Hz Rs=40 RL=600 [+24 - +0 6dB Steps]
20Hz
30Hz
40Hz
50Hz
60Hz
%
dBu



TEST CIRCUIT 1



TEST CIRCUIT 2

NOTES:

All graphs generated from one (1) randomly chosen Device. No statistical averaging or weighting. Data from one sweep.