



QUALITY MAGNETICS SINCE 1979

CMOL-4x600T2

LINE BRIDGING SPLITTER TRANSFORMER *Ultra-Balanced*

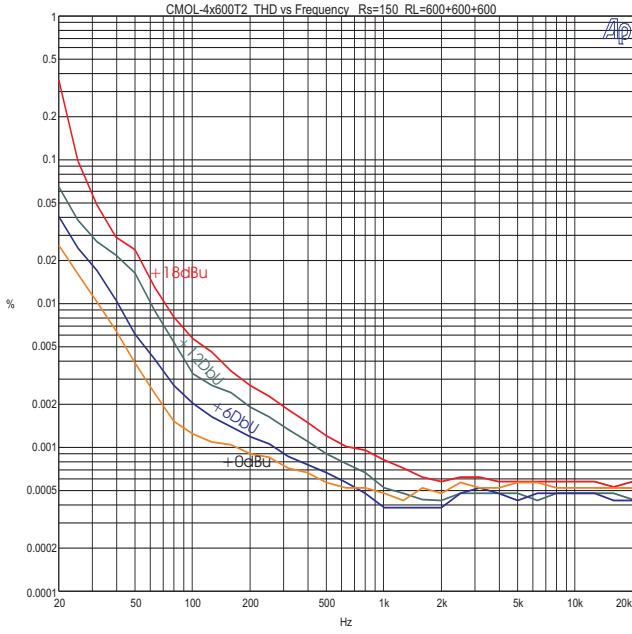
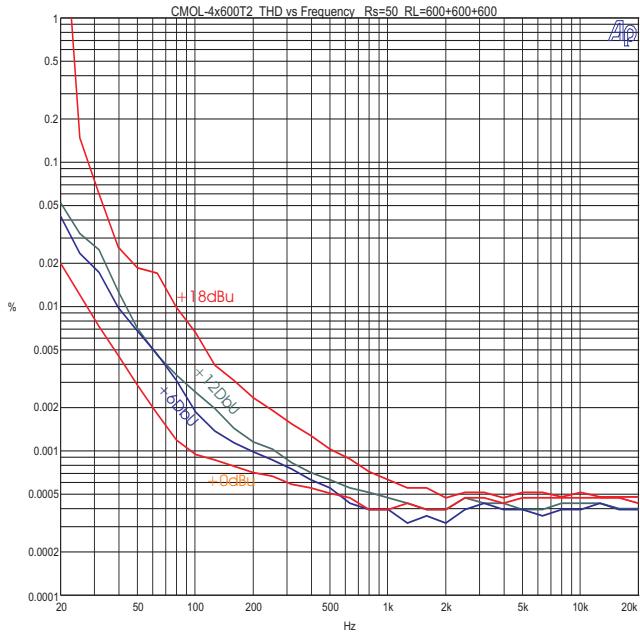
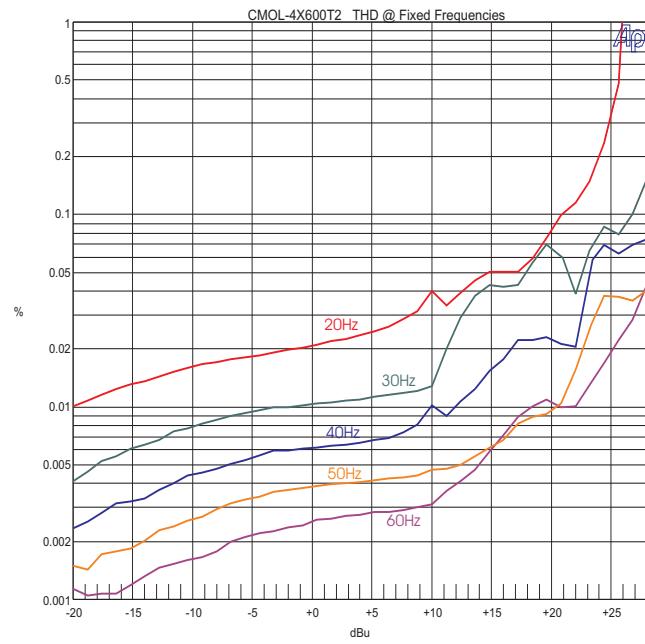
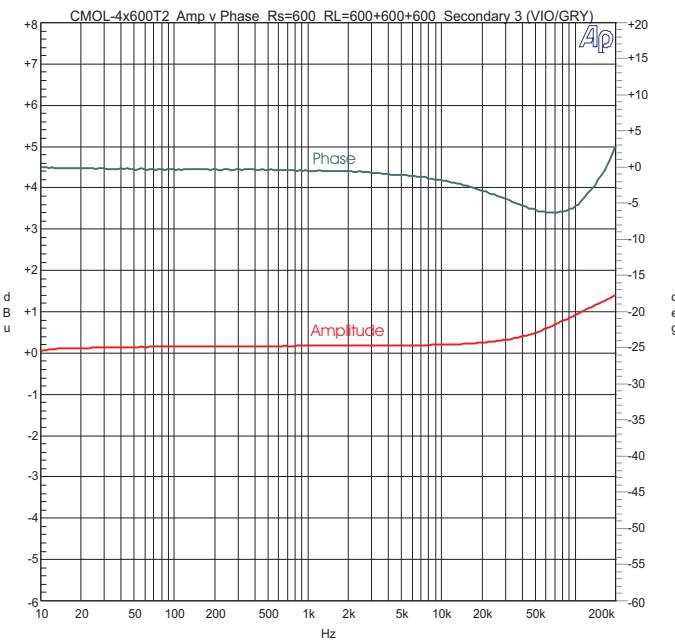
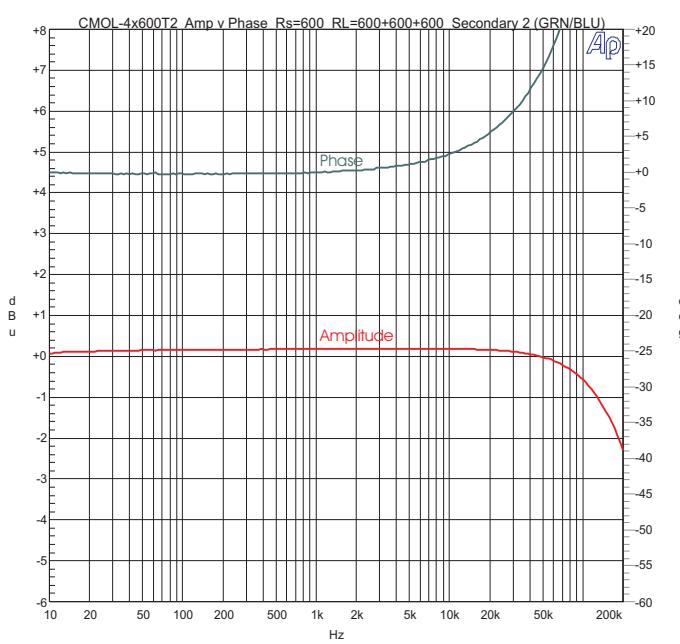
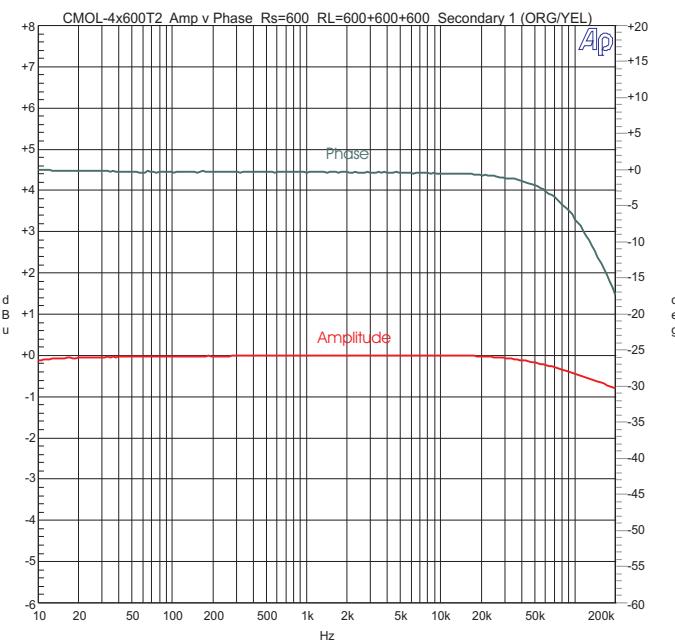
- Superb CMRR > 110 dB 20 Hz - 1 kHz
- Excellent bandwidth
- Distortion 0.02% typ at 20 Hz
- +26 dB max input level at 20 Hz, 1% THD+N%
- Phase Shift 1°, +5°, -4° at 20 kHz
- Low insertion loss
- Twin Bobbin hum-bucking

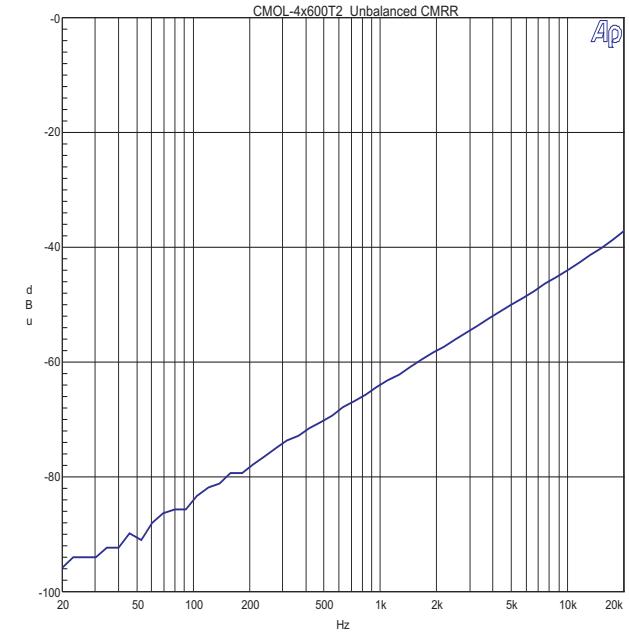
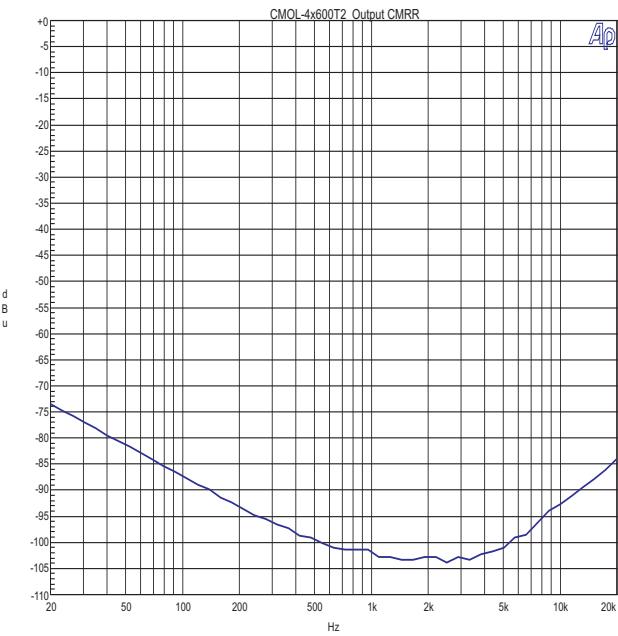
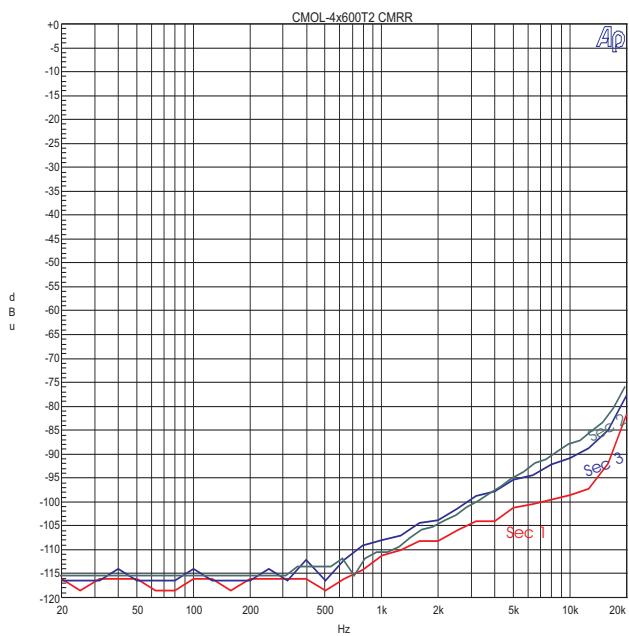
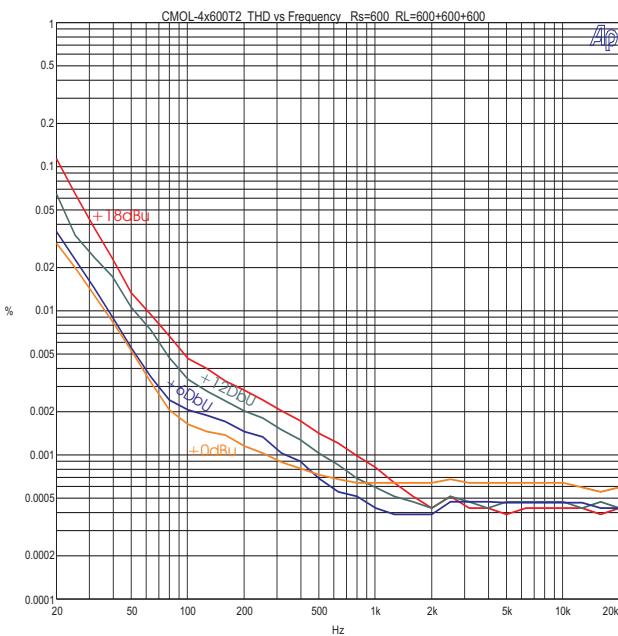
The CineMag CMOL-4x600T2 bridging output transformer is optimized for nearly ideal winding balance. This technique results in superb CMRR throughout the audio band. At 60Hz the CMRR is 115 dB. It is designed to be driven by either a balanced or unbalanced source, and it delivers either a balanced or unbalanced output. It is manufactured with a High Nickel (80% Ni) core. All connections to the internal shield foils are spot welded to assure long term reliability, as is so with all CineMag transformers. This wire bonding technique is necessary to retain the close balance between windings. Soldering the shield leads would result in lumps in the coils as they are built up resulting in uncontrollable variations. Not only is its coil configuration hum-bucking, it is encased in a μ Metal can which provides an additional 30 dB of magnetic shielding.

This line splitter transformer is ideal for long cable runs where interference is a serious problem in electrically hostile environments.

CMOL-4x600T2

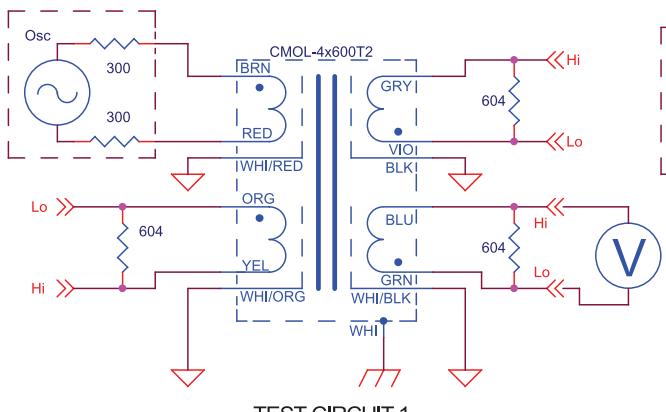
Parameter	Conditions	Typ
Turns Ratio		1 : 1.00 : 1.00 : 1.00
Input Impedance, Zi	20 Hz to 20 kHz, +0 dBu	Test Circuit 4
Voltage Gain	1kHz Rs=600 $R_L=600 + 600 + 600$ 1kHz Rs=50 $R_L=600 + 600 + 600$	Test Circuit 1
Distortion (THD+N%)	1 kHz, +6dBu, Rs= 600 $R_L=600 + 600 + 600$ Test Circuit 1	0.005%
Max 20 Hz input level	1.0% THD+N%	Test Circuit 1
Response, ref 1 kHz	20 Hz Rs=600 $R_L=600 + 600 + 600$ 20 kHz -3 dB	Test Circuit 1
Phase Shift at 20Hz Phase Shift at 20 kHz	Referenced to source generator	1° +1°, +5°, -4°
CMRR	60 Hz $R_L=600 + 600 + 600$ 1 kHz 20 kHz IEEE Std. 389-1966 ¶19	Test Circuit 2
Unbalanced CMRR	60Hz $R_L=600 + 600 + 600$	Test Circuit 3
Output CMRR	60 Hz .	Test Circuit 5
Operating Temp Range	Operation and storage	0° C Min 70° C Max



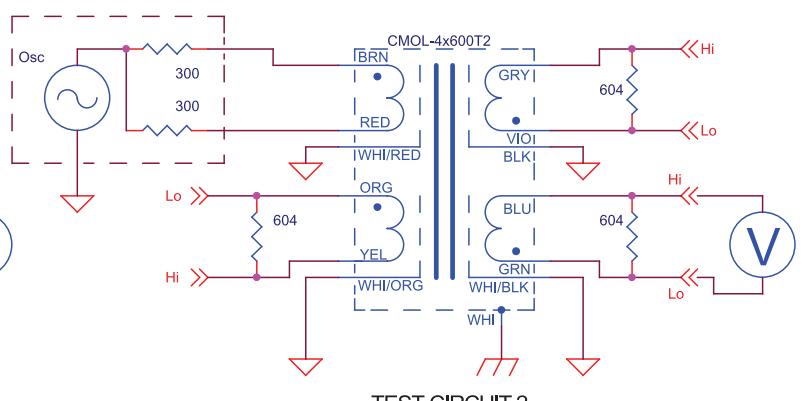


NOTES:

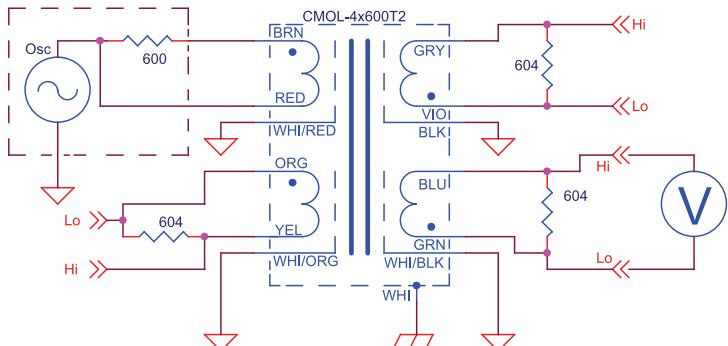
1. All graphs generated from one (1) randomly chosen device. No statistical averaging or weighting.



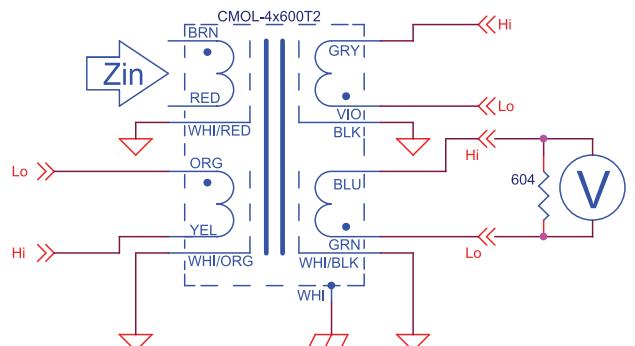
TEST CIRCUIT 1



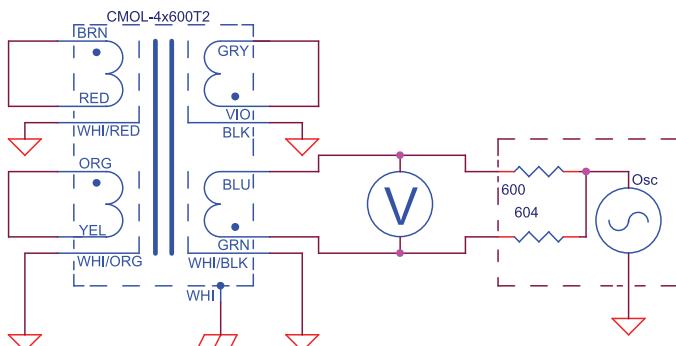
TEST CIRCUIT 2



TEST CIRCUIT 3



TEST CIRCUIT 4



TEST CIRCUIT 5

