Superior Magnetics Since 1979

CMOL-3x600T2

LINE SPLITTER TRANSFORMER
Ultra-Balanced

- **Superb CMRR: 121 dB 60 Hz 110 dB 1 kHz**
- **Very good bandwidth -2.8 dB at 200 kHz**
- **Distortion 0.02% typ at 20 Hz**
- **+22 dB Input Level at 20 Hz, 1% THD+N%**
- **Phase Shift -7° at 20 kHz**
- **Secondary Level Balance 0.040 dBu**
- **Twin Bobbin construction**
- **Excellent complement to CMOL-2x600T2**

The CineMag CMOL-3x600T2 line splitter transformer is designed for ideal winding balance and matching. The secondaries exhibit very small level differences between each other. It exhibits superb CMRR throughout the audio band. Even at 10 kHz the CMRR is 90 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 for best overall distortion characteristics. All of the wires to the internal shield foils are spot welded to assure long term reliability, as is the practice with all CineMag transformers. This wire bonding technique is necessary to retain ideal balanced coupling between windings. Soldering the shield leads would result in lumps in the coils as they are built up resulting in uncontrollable variations. Not only does it use hum-bucking windings, it is encased in a μMetal can which provides 30 dB of magnetic shielding.

This transformer is ideal for solving the most difficult hum and buzz pickup problems. It is especially effective for long lines in electromagnetically hostile environments. Please see AN-101 and AN-103.

CMOL-3x600T2

Parameter	Conditions		Typ
Turns Ratio			1 : 1.00 : 1.00
Input Impedance, Zi	20 Hz to 20 kHz, 0 dBu	Test Circuit 4	512Ω
Secondary Level Balance	1 kHz, dBm Rs=600 Rl=600	Test Circuit 1	± 0.040 dBu
Voltage Gain	1 kHz Rs=600 Rl=600 1 kHz Rs=600 Rl=1.0K	Test Circuit 1	-10.6 dBu
Distortion (THD+N%)	1 kHz, +19 dBu, Rs=600 Rl=600	Test Circuit 1	0.0007%
Max 20 Hz input level	1.0% THD+N%	Test Circuit 1	+22 dBu
Response, ref 1 kHz	20 Hz Rs=600 Rl=600 20 kHz -2.8 dB	Test Circuit 1	-0.08 dB -0.02 dB 200 kHz
Phase Shift at 20Hz Phase Shift at 20 kHz	Referenced to source generator	Test Circuit 1	+1° -7°
CMRR Output CMRR	60 Hz Test Circuit 2 per IEE Std 389-1996 ¶19 1 kHz Note: Results independent of 20 kHz whether center tap grounded or not. 1 kHz Test Circuit 3 Center Tap Grounded		121 dB 110 dB 80 dB 115 dB
UnBalanced Primary CMRR	60 Hz 1 kHz	Test Circuit 3	91 dB 70 dB
Operating Temp Range	Operation and storage		0° C Min 70° C Max

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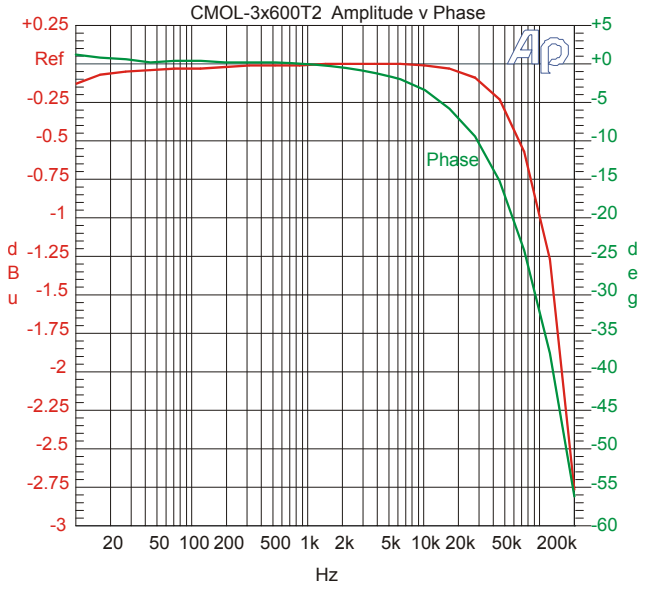
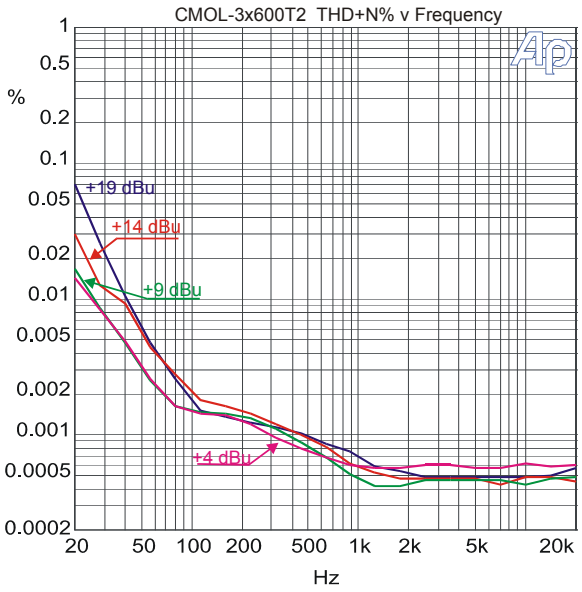
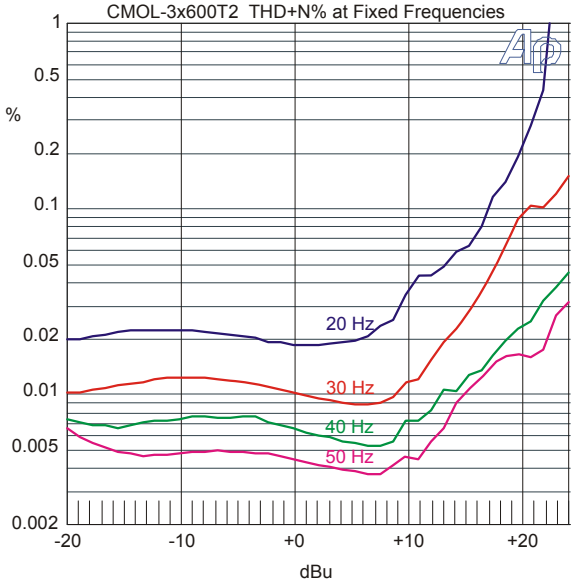
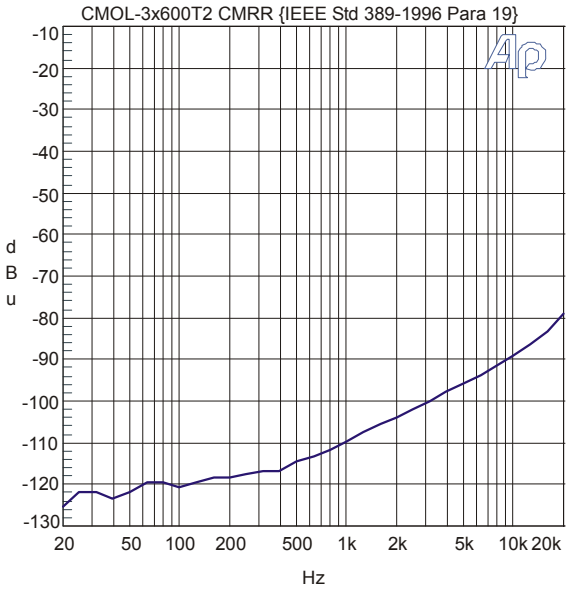
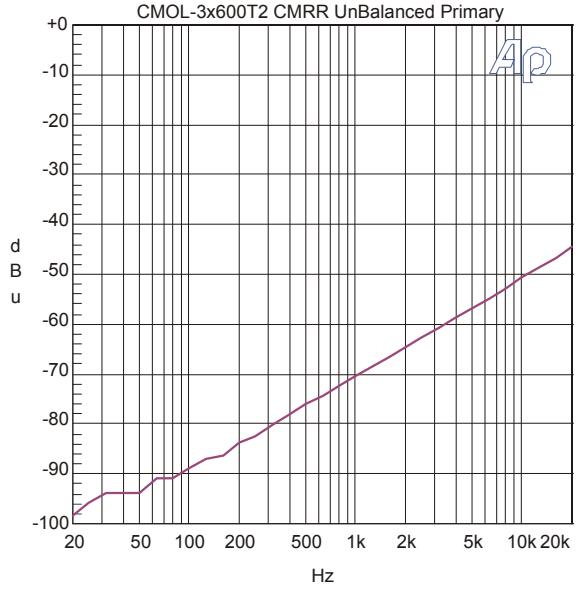
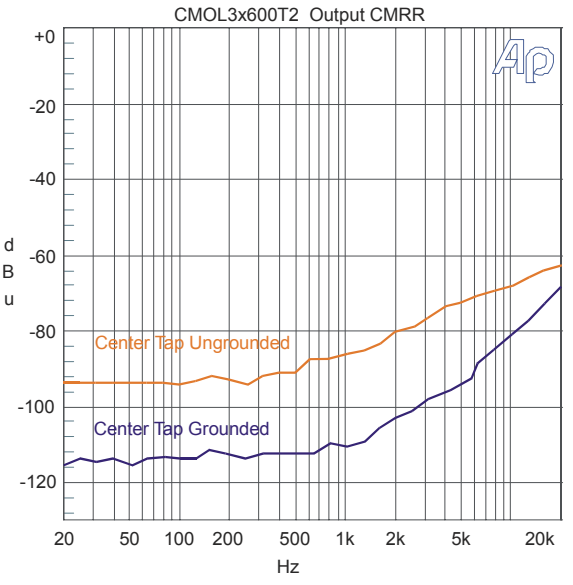


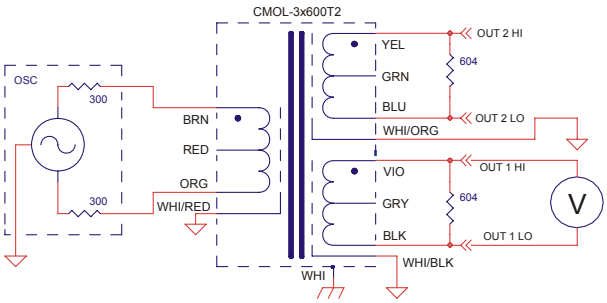




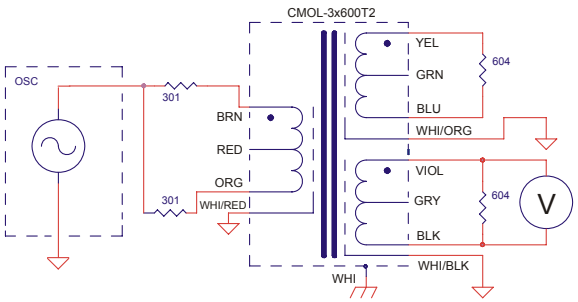








TEST CIRCUIT 1



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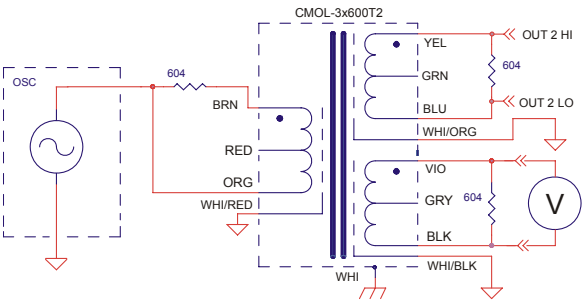

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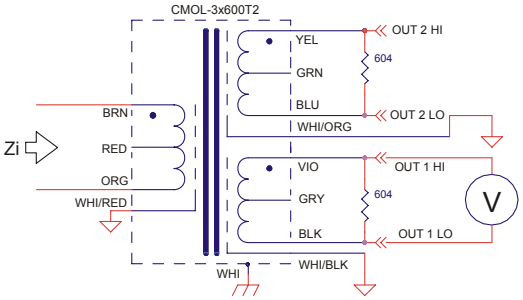

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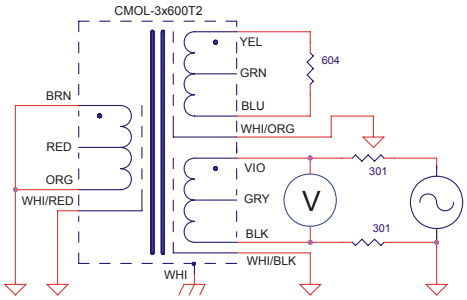

TEST CIRCUIT 5

NOTES:

1. All graphs generated from one (1) randomly chosen device. No statistical averaging or weighting. Data from one sweep.
2. Rs=600 unless otherwise noted.