

Superior Magnetics Since 1979



CMOL-2x600T2

LINE BRIDGING OUTPUT TRANSFORMER Ultra-Balanced

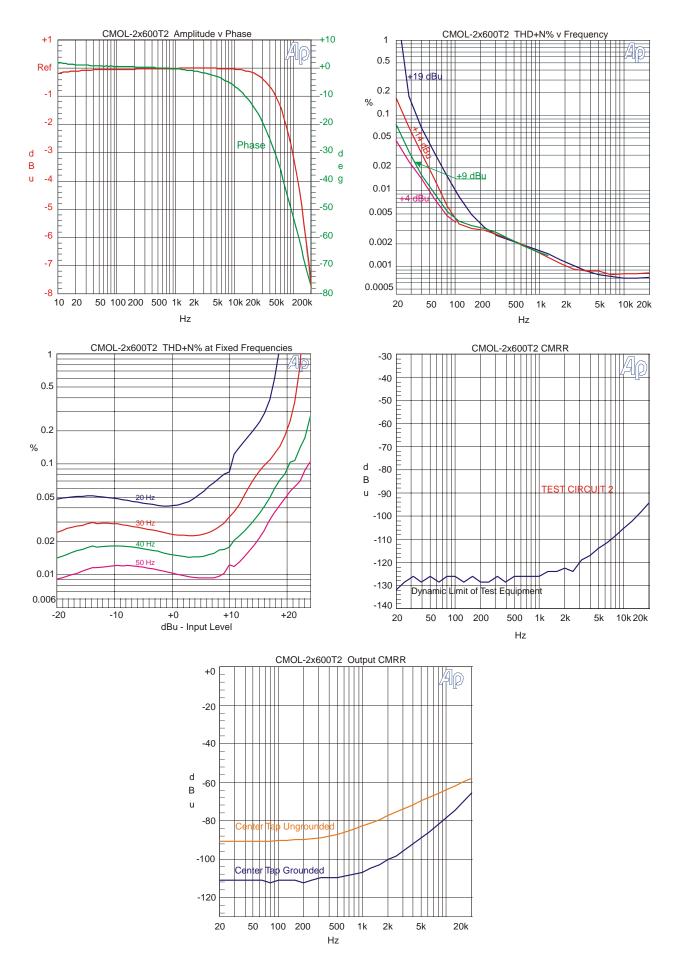
- Superb CMRR > 125 dB 20 Hz 1 kHz
- Very good bandwidth -3 dB at 95 kHz
- Distortion 0.04% typ at 20 Hz
- +18.5 dB max input level at 20 Hz, 1% THD+N%
- Phase Shift -13° at 20 kHz
- Low insertion loss
- Twin Bobbin construction
- Excellent complement to CMOL-3x600T2

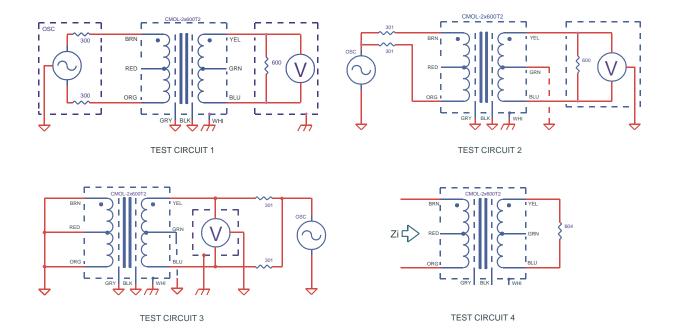
The CineMag CMOL-2x600T2 bridging output transformer is optimized for ideal winding balance. This technique results in superb CMRR throughout the audio band. Even at 20 kHz the CMRR is 94 dB. It is designed to be driven by either a balanced or unbalanced source, and it delivers either a balanced or unbalanced 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 so with all CineMag transformers. This wire bonding technique is necessary to retain ideal 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 does it use hum-bucking windings, it is encased in a μ Metal can which provides 30 dB of magnetic shielding.

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

CMOL-2x600T2

Parameter	Conditions		Тур	
Turns Ratio			1:1.00	
Input Impedance, Zi	20 Hz to 20 kHz, 0 dBu	Test Circuit 4	558Ω	
Insertion Loss	1 kHz, dBm Rs=600 RI=600	Test Circuit 1	0.285 dBm	
Voltage Gain	1 kHz Rs=600 RI=600 1 kHz Rs=600 RI=1.0K 1 kHz Rs=600 RI=1.5K 1 kHz Rs=600 RI=9K 1 kHz Rs=600 RI=100K	Test Circuit 1	-1.750 dBu -1.096 dBu -0.750 dBu -0.114 dBu <u>≤</u> 0.001dBu	
Distortion (THD+N%)	1 kHz, +4 dBu, Rs=600 Rl=600	Test Circuit 1	0.0004%	
Max 20 Hz input level	1.0% THD+N%	Test Circuit 1	+18.5 dB	
Response, ref 1 kHz	20 Hz Rs=600 Rl=600 20 kHz -3 dB	Test Circuit 1	-0.2 dB -0.2 dB 95 kHz	
Phase Shift at 20Hz Phase Shift at 20 kHz	Referenced to source generator	Test Circuit 1	+1° -13°	
CMRR	60 Hz 1 kHz Note: Results independent 20 kHz whether center tap g		≥ 128 dB ≥ 125 dB 94 dB	
Output CMRR	60 Hz Center tap grounded 1 kHz	Test Circuit 3	114 dB 108 dB	
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. Data from one sweep.
- 2. Rs=600 unless otherwise noted.

