



REICHENBACH ENGINEERING



CMOQ-2

LINE OUTPUT TRANSFORMER Quadfilar Windings

- Excellent bandwidth -0.35 dB at 200 kHz
- Rs=150Ω 80% Nickel (“HiNi”) laminations
- Distortion 0.01% typ at 20 Hz, Rs=150Ω HiNi
- +23 dBm at 20 Hz, 1% THD+N Rs<150Ω
- Phase Shift -5° at 20 kHz, Rs=150Ω
- Low insertion loss

The CMOQ-2 output transformer uses bifilar construction techniques. This four winding transformer delivers good coupling between windings providing very wide bandwidth. It is available with 80% nickel alloy (“H” suffix), 50% nickel + 50% steel (“L”), or all steel (“S”). It can be driven with source impedances of up to 600 Ohms. As with all line driving transformers the amplifier feeding it should be capable of cleanly delivering the power required to reach maximum operating level. See AN-102.

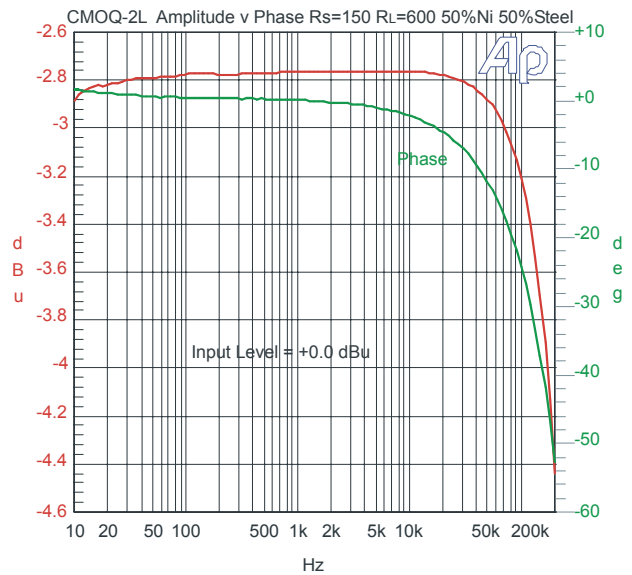
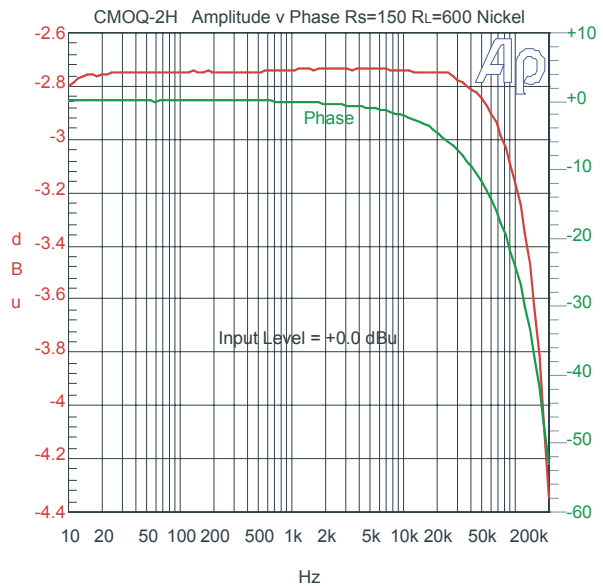
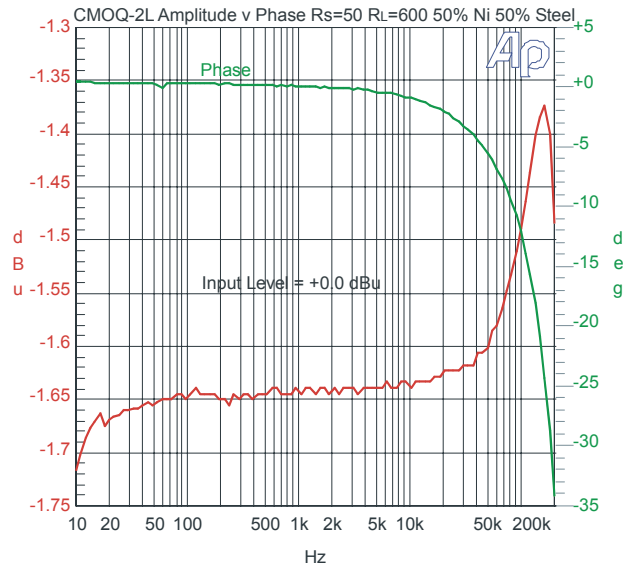
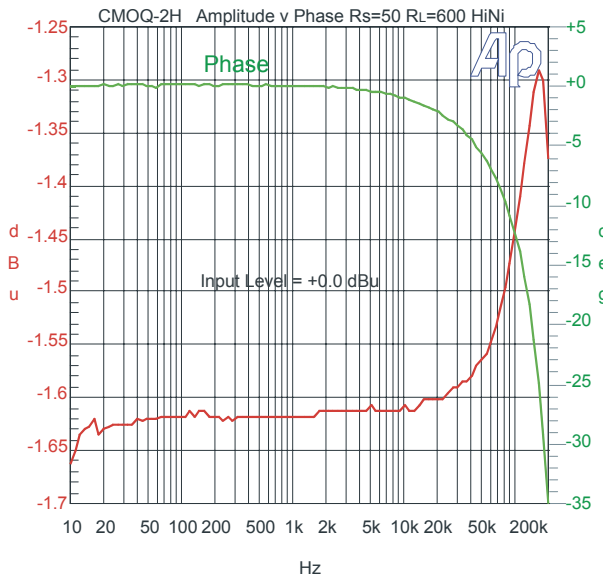
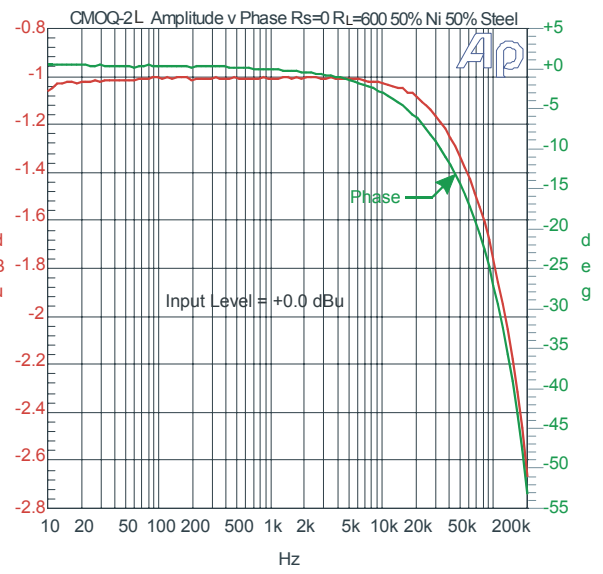
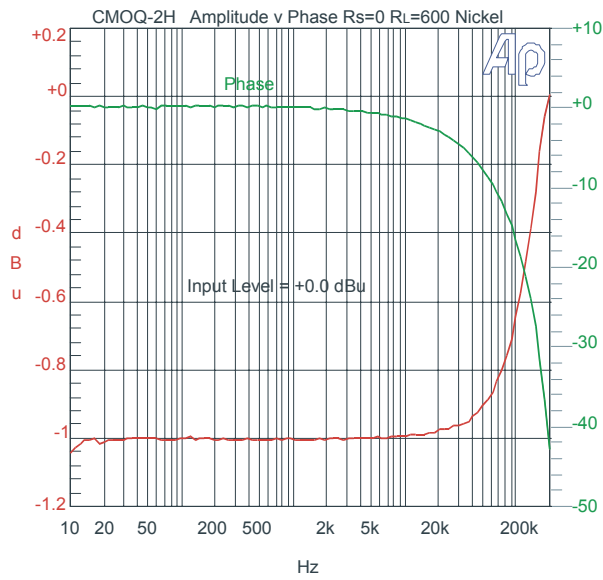
CMOQ-2H / CMOQ-2L / CMOQ-2S

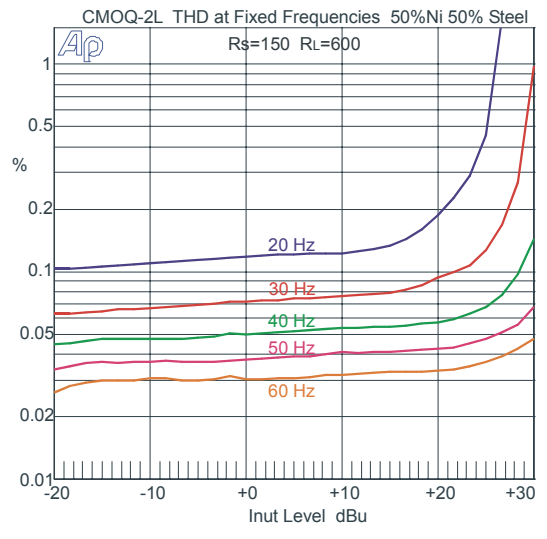
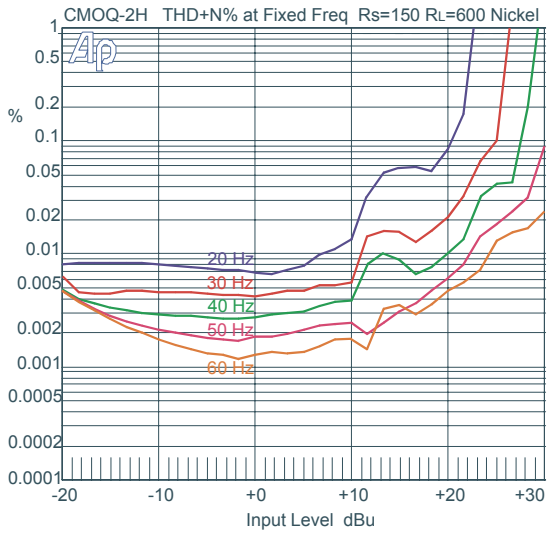
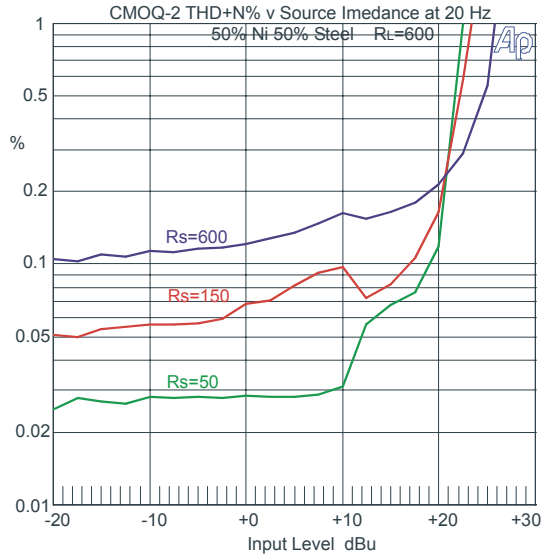
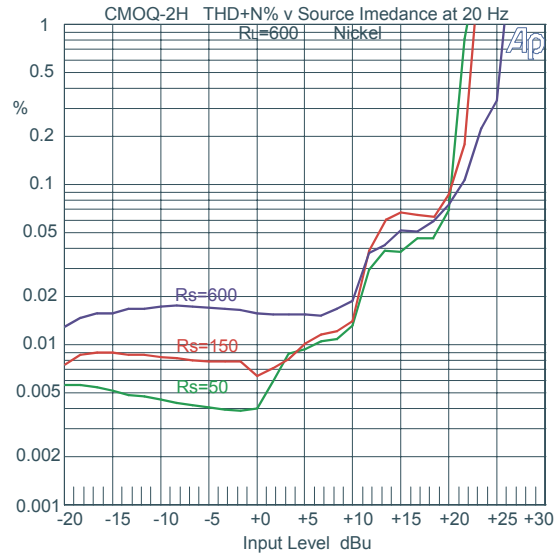
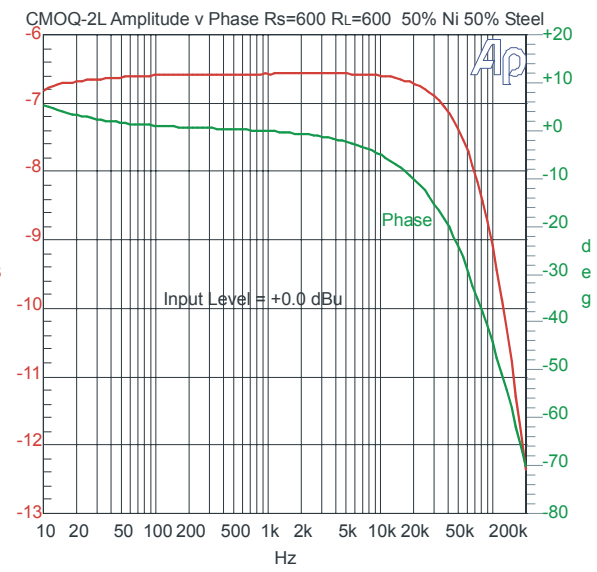
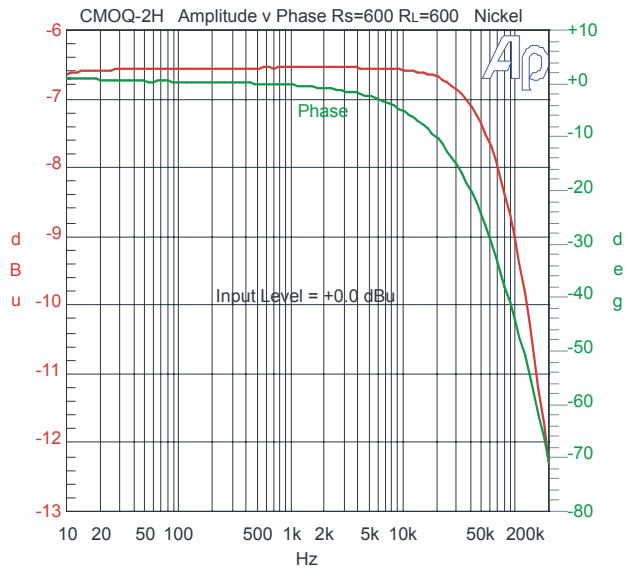
| Parameter | Conditions | Typ |
|--|--|----------------------------------|
| Turns Ratio | | 1 : 1.00 |
| Input Impedance, Zi | 20 Hz to 20 kHz, 0 dBu Test Circuit 4 | 680Ω |
| Voltage Gain | 1 kHz HiNi Core, Rs=150 Test Circuit 1 1 kHz 50% Nickel/50% Steel Core, Rs=150 | -2.75 dB -2.78 dB |
| Distortion (THD+N%) | 1 kHz, +4 dBu, Rs=150 HiNi Test Circuit 1 1 kHz, +4 dBu, Rs=150 50%Ni/50% Steel | 0.0004% 0.0006% |
| Max 20 Hz input level | 1.0% THD+N, Rs≤150 HiNi Test Circuit 1 1.0% THD+N, Rs≤150 50% Ni 50% Steel | +22 dB +22 dB |
| Response, ref 1 kHz | 20 Hz Rs=150Ω HiNi Test Circuit 1 20 kHz Rs=150Ω HiNi Test Circuit 1 200 kHz Rs=150Ω HiNi Test Circuit 1 | -0.02 dB -0.02 dB -1.45 dB |
| Phase Shift at 20Hz Phase Shift at 20 kHz | Referenced to source generator Test Circuit 1 | +1° -5° |
| CMRR | 60 Hz Test Circuit 2 per IEEE Std 389-1996 ¶19 1 kHz Test Circuit 2 per IEEE Std 389-1996 ¶19 | 88 dB 92 dB |
| Output CMRR | 60 Hz Test Circuit 3 1 kHz Test Circuit 3 | 92 dB 98 dB |
| Operating Temp Range | Operation and storage | 0° C Min 70° C Max |

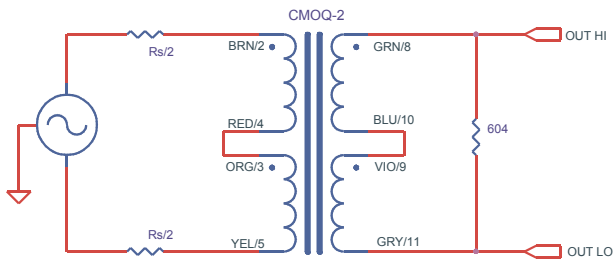
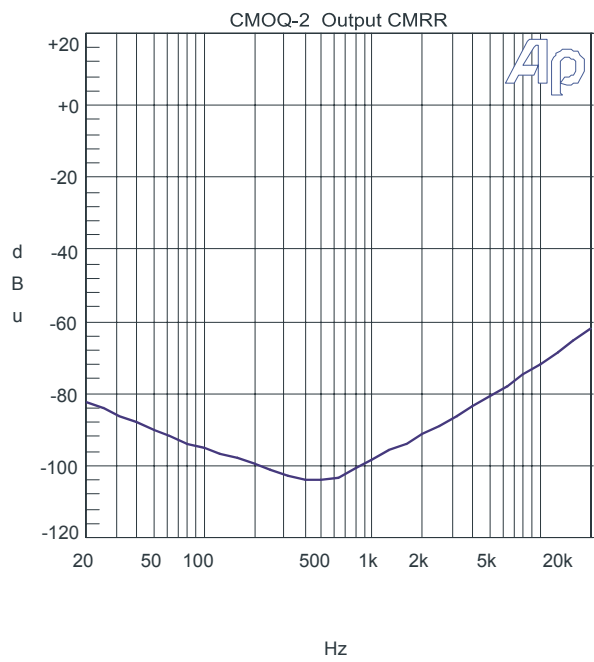
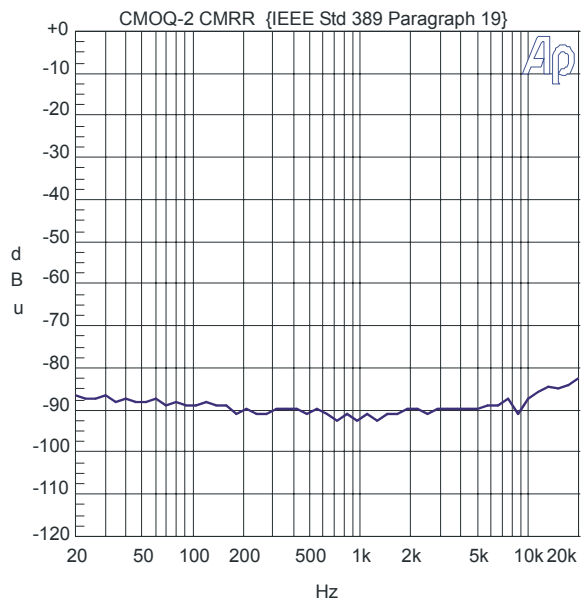
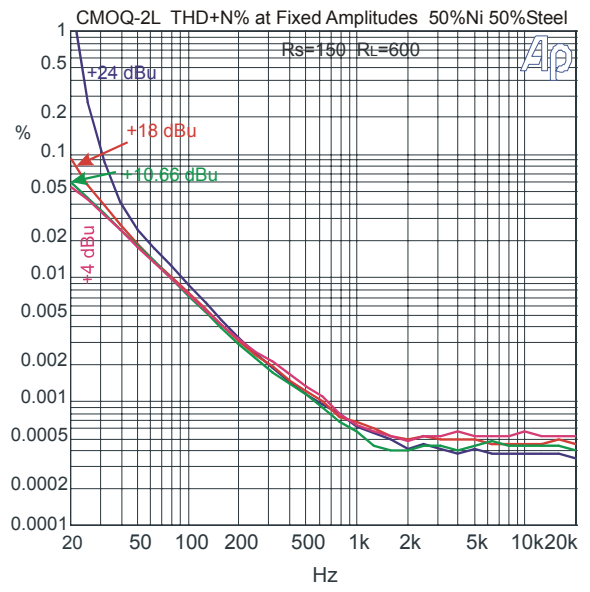
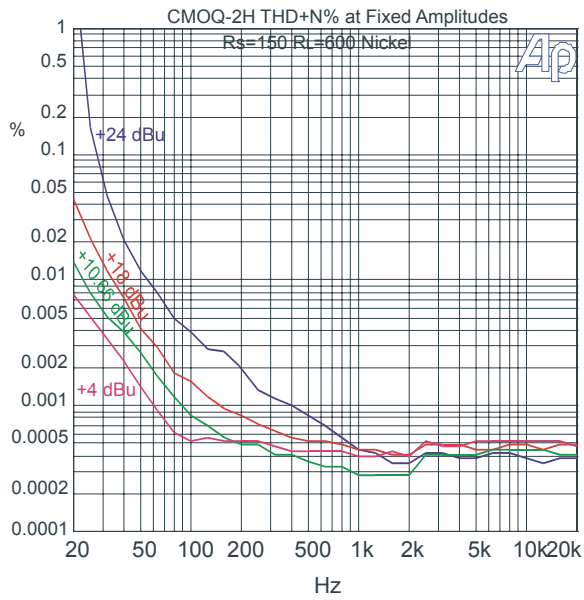
4487 Ish Drive, Simi Valley, California 91304

(818) 993-4644

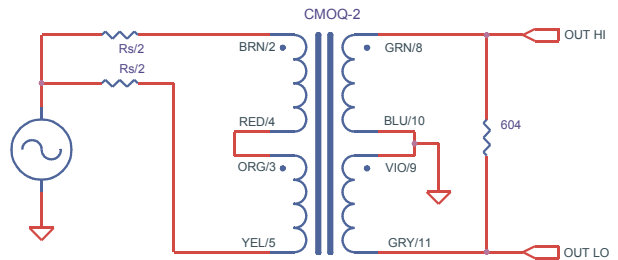
<http://www.cinemag.biz>



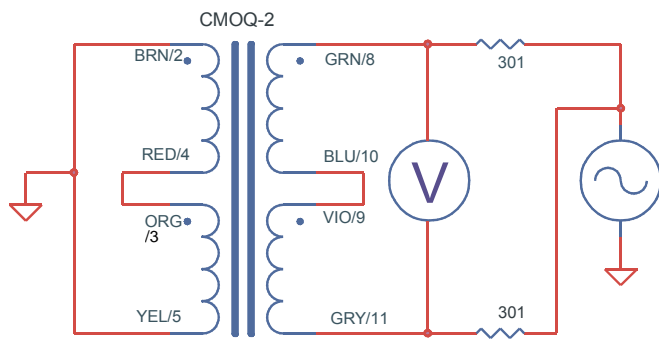




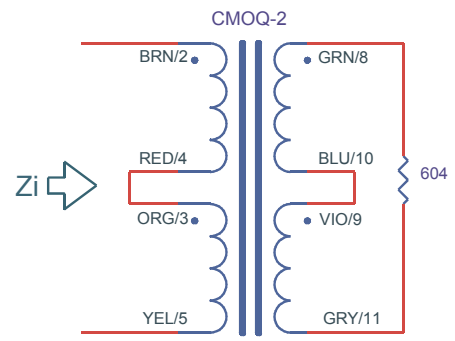
TEST CIRCUIT 1



TEST CIRCUIT 2



TEST CIRCUIT 3



TEST CIRCUIT 4

NOTES:

1. All graphs generated from one (1) randomly chosen device. No statistical averaging or weighting. Data from one sweep.
2. $R_L = 604$ unless otherwise noted.

