Superior Magnetics Since 1979

CM-9589

TUBE OUTPUT TRANSFORMER
4 : 1 Step-down turns ratio

- **Excellent bandwidth even with high Z source**
- **-0.2 dBu at 65 kHz Rs=2.43K**
- **High Nickel ("HiNi") or 50% Ni / 50% Steel core**
- **Distortion 0.002% at 20 Hz +10 dB in, Rs=50Ω**
- **0.5% THD+N% +18 dBm Output Rs=50Ω**
- **Phase Shift -6° at 20 kHz, Rs=2.43K**

The CineMag CM-9598 tube output transformer is designed for either capacitor coupled or balanced bridging output stages. It works very well being driven from very low through high source impedances. The CM-9589 can be driven with source impedances of up to 10KΩ. It is available both with 80% Nickel ("HiNi") and 50% Nickel/50% Steel laminations. As is so for all tube driven transformers, the amplifier feeding it should be capable of cleanly delivering the power required to reach maximum operating level.

CM-9598H / CM-9598L

Parameter	Conditions	Typ
Turns Ratio		4 : 1.0
Voltage Gain	1 kHz HiNi Core, Rs=50Ω	-12.04dB
Distortion (THD+N%)	1 kHz, +30 dBu input, Rs=50Ω Test Circuit 1 1 kHz, +21 dBu input, Rs=50Ω	≤ 0.0004% 0.0003 %
Max 20 Hz Input Level	0.1% THD+N%, Rs=50Ω Test Circuit 1 0.1% THD+N%, Rs=2.43K	+ 29dB ≥+ 30dB
Response, ref 1 kHz	20 Hz Rs=2.43K Test Circuit 1 20 kHz Rs=2.43K Test Circuit 1 200 kHz Rs=2.43K Test Circuit 1	-0.04 dB -0.005 dB -1.8 dB
Phase Shift at 20Hz Phase Shift at 20 kHz	Referenced to source generator Rs=2.43K Test Circuit 1	-1° -6°
CMRR	60 Hz Test Circuit 2 per IEEE Std 389-1996 ¶19 1 kHz Test Circuit 2 per IEEE Std 389-1996 ¶19	83 dB 60 dB
Output CMRR	60 Hz Test Circuit 3 1 kHz Test Circuit 3	86dB 87 dB
Max Operating Voltage		270 V
Operating Temp Range	Operation and storage	0° C Min 70° C Max

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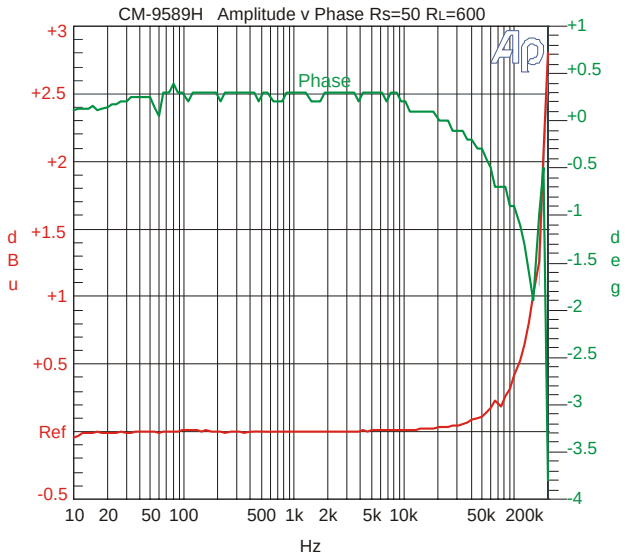

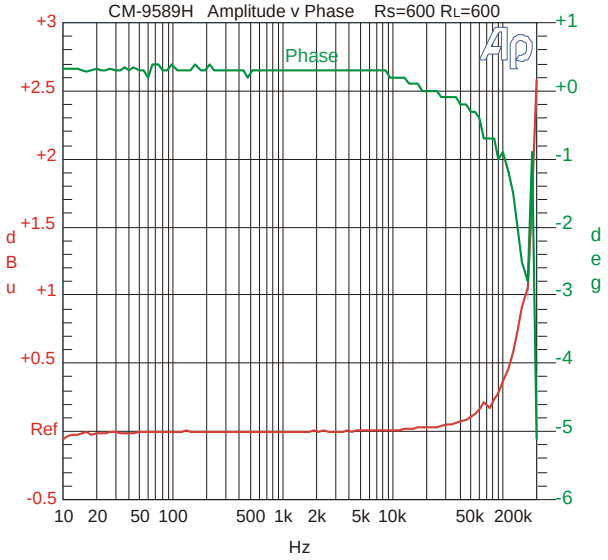

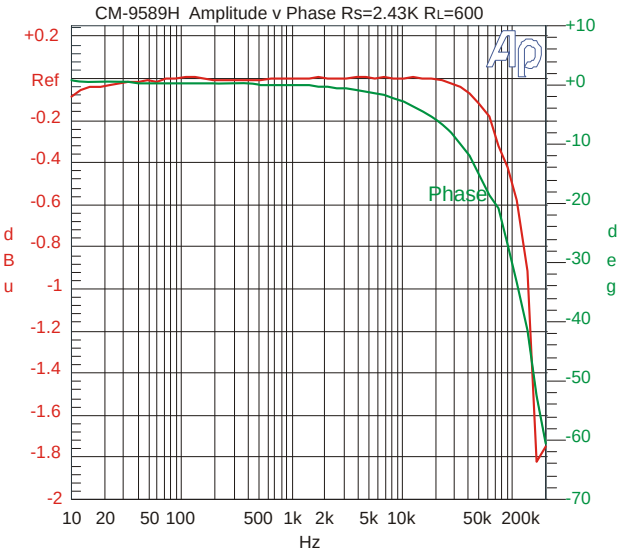

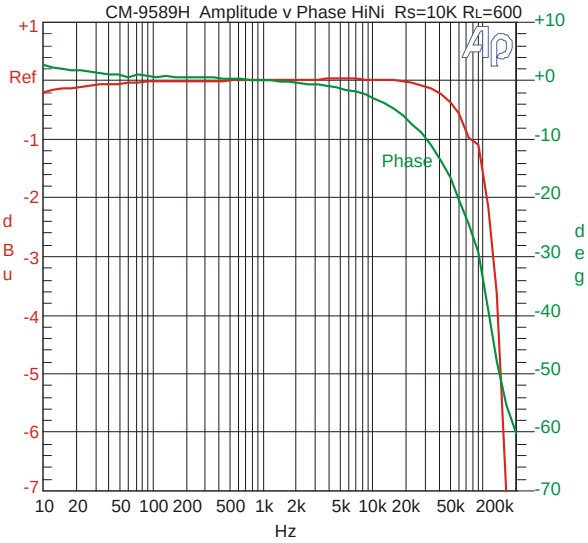

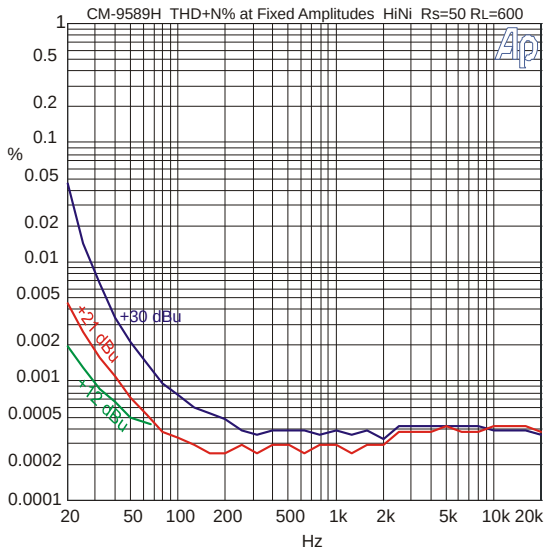

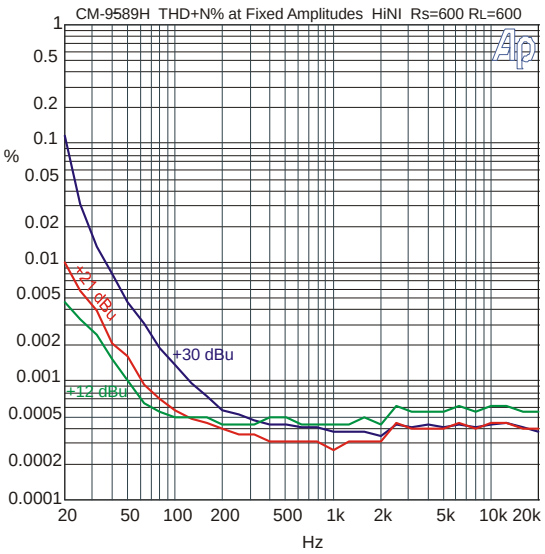

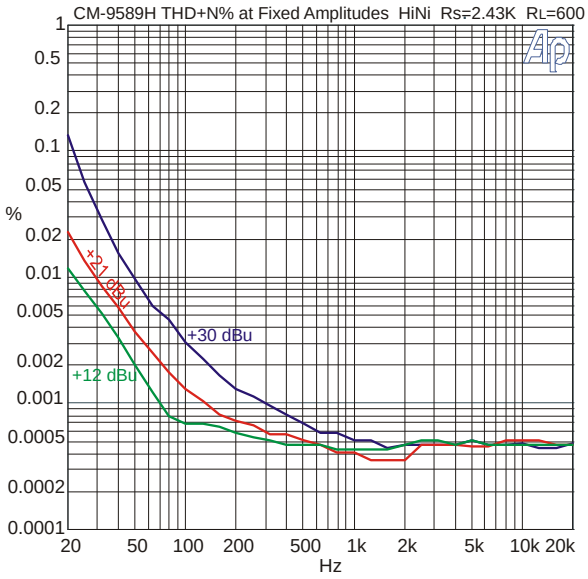

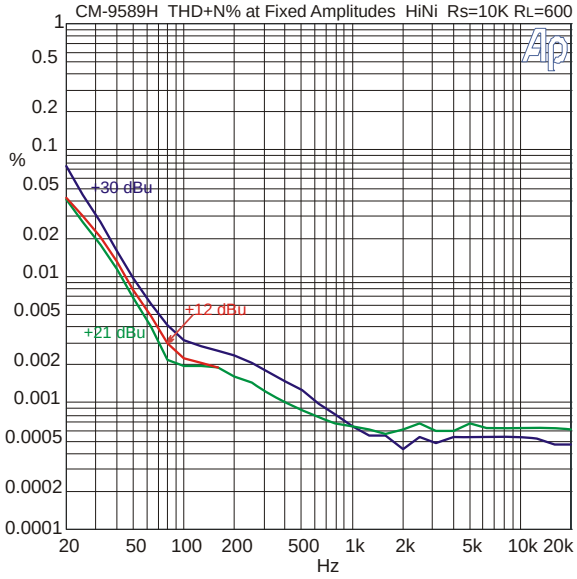

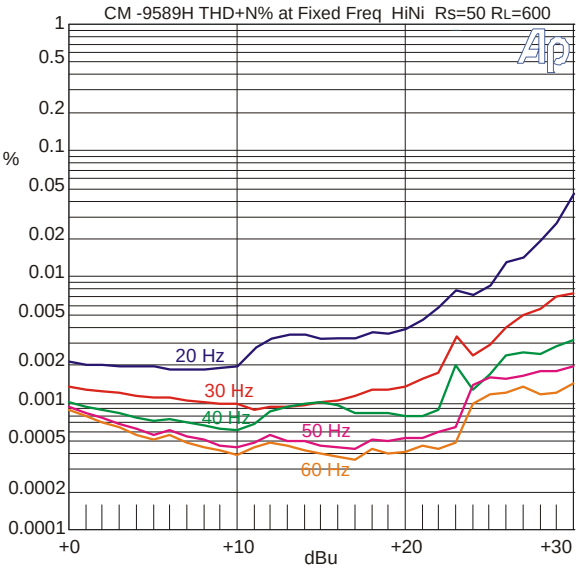

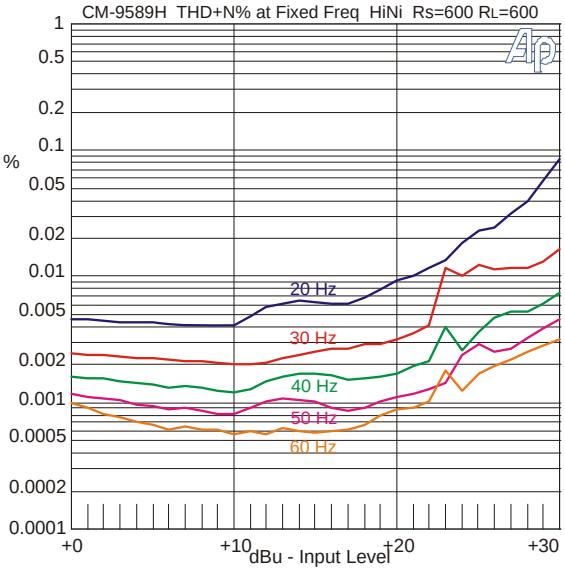

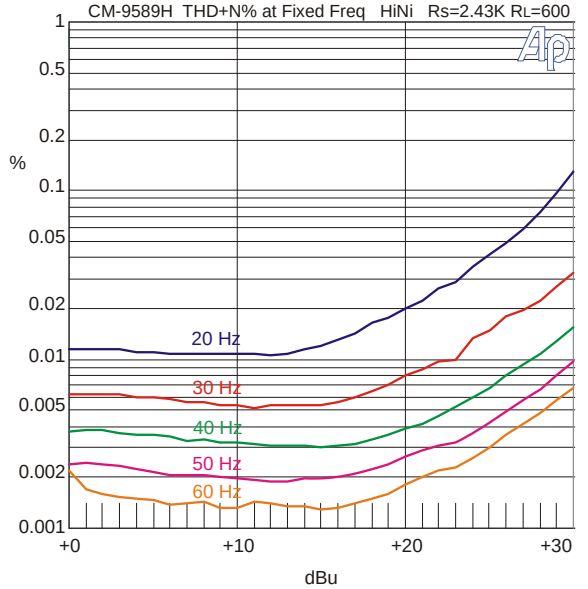

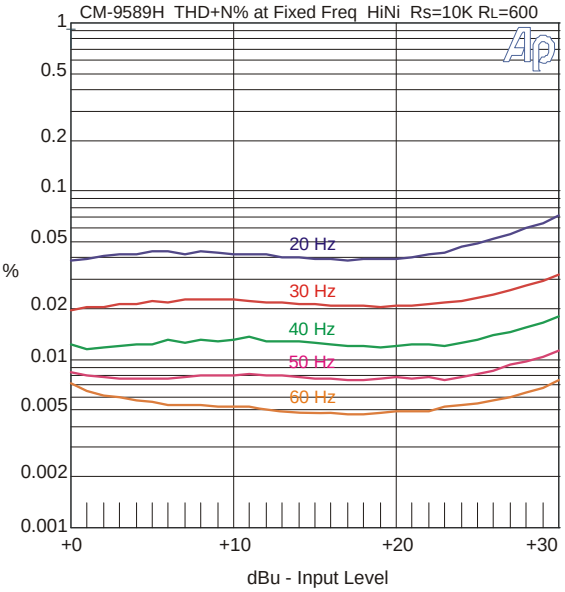

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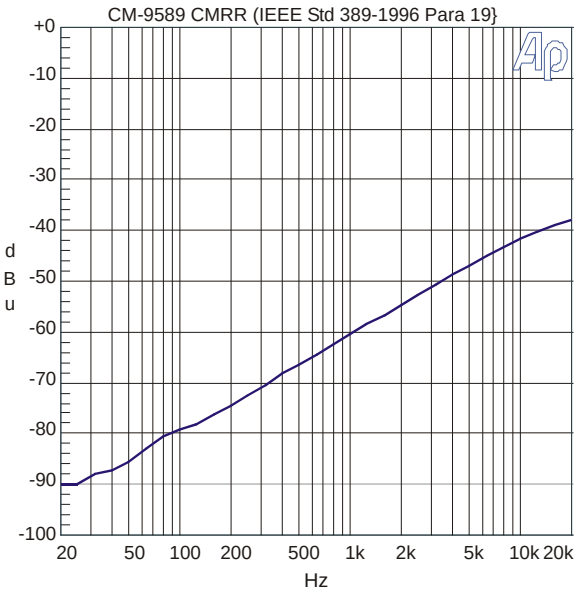
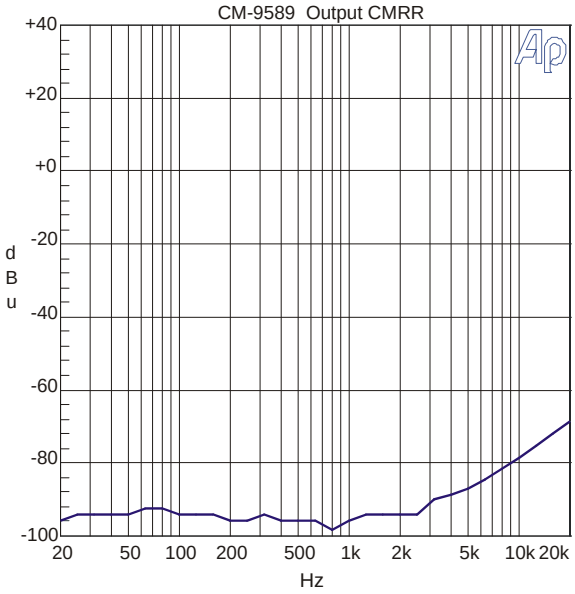
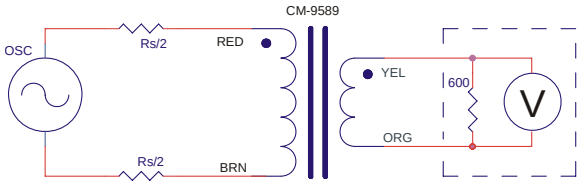
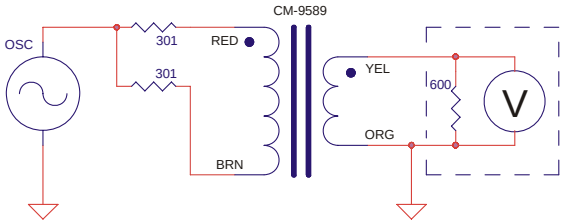






TEST CIRCUIT 1



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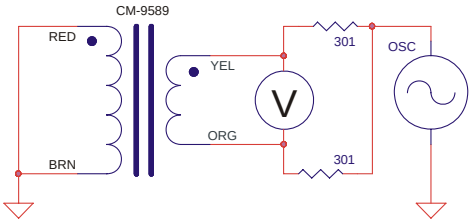

TEST CIRCUIT 3

NOTES:

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