



QUALITY MAGNETICS SINCE 1979

CM-20110

Microphone Output Transformer 8.5 : 1 Step-down

- **Wide bandwidth (- 3 dB at 85 kHz)**
- **Excellent CMRR**
- **Choice of high-nickel (“H” suffix) or 50% high-nickel + 50% steel (“L”) core**
- **Low distortion**
- **Hum-bucking construction**

The CM-20110x is a vacuum tube microphone output transformer. It has excellent bandwidth and uses hum-bucking construction techniques to minimize magnetic interference pickup. The lamination stack can be provided either with all high-nickel laminations or (for a different sonic coloration) a mix of 50% high-nickel and 50% steel laminations. It is very well balanced, resulting in excellent CMRR. (The “H” suffix designates high-nickel core laminations and the “L” suffix is 50% high-nickel + 50% steel.)

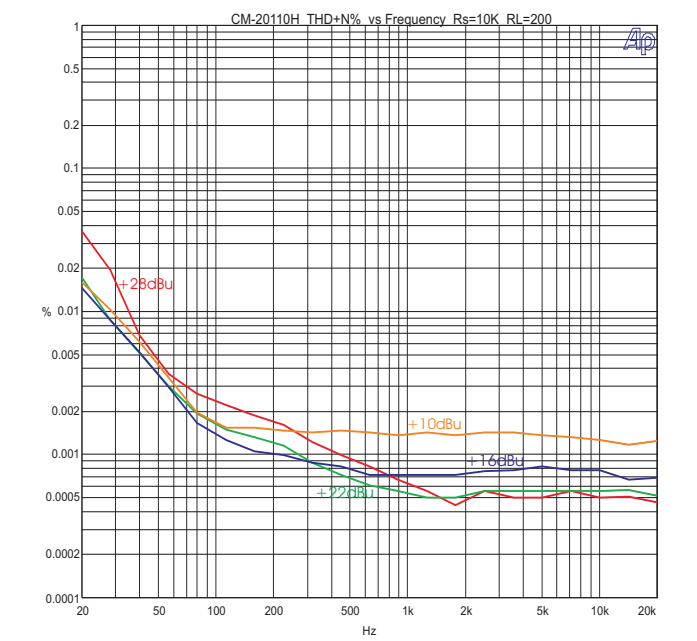
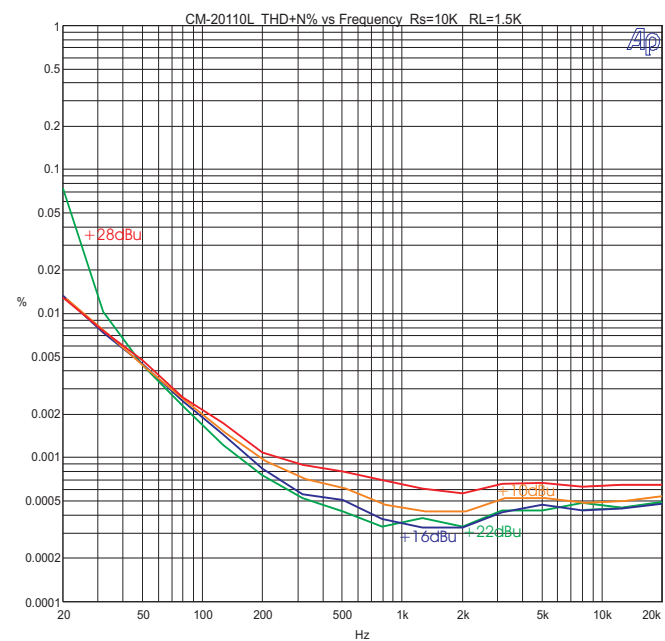
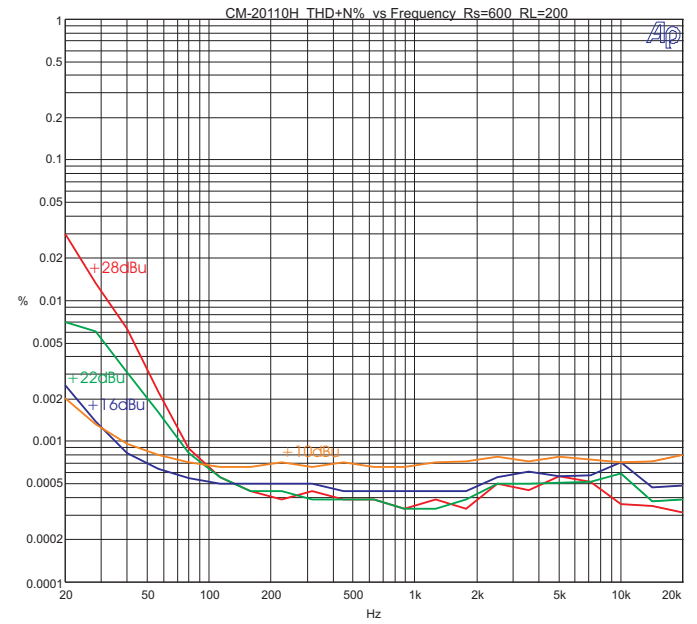
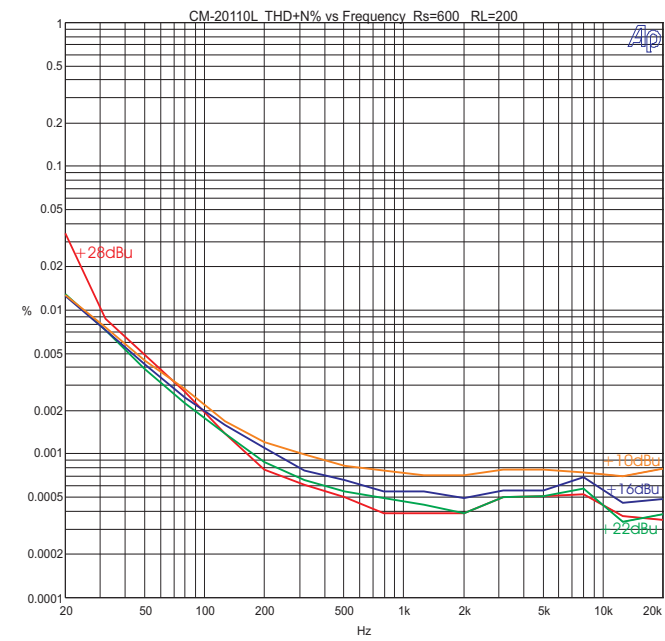
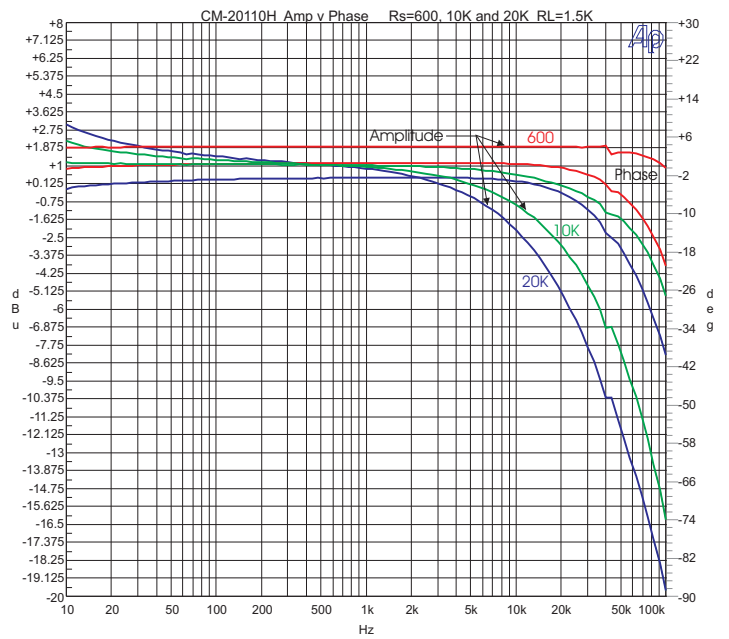
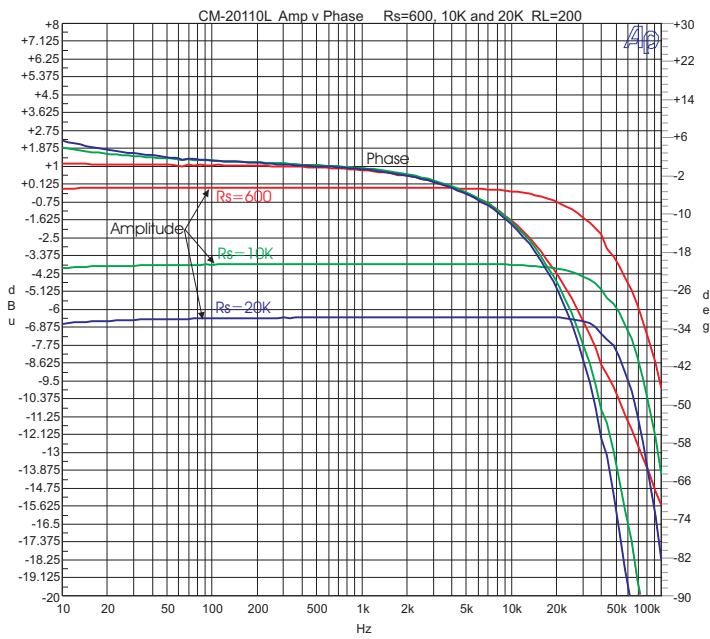
CM-20110

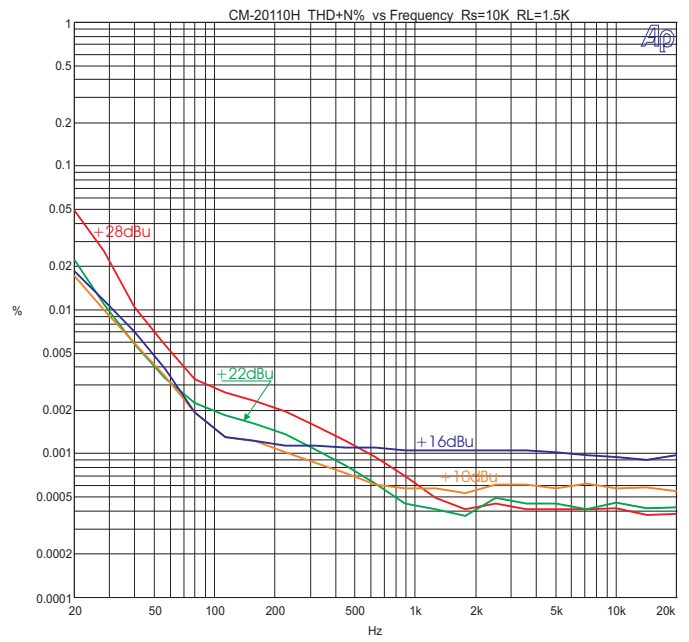
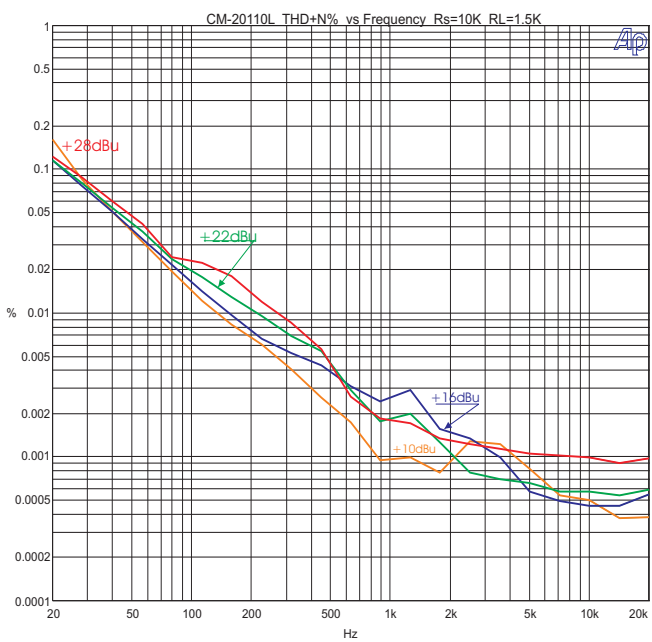
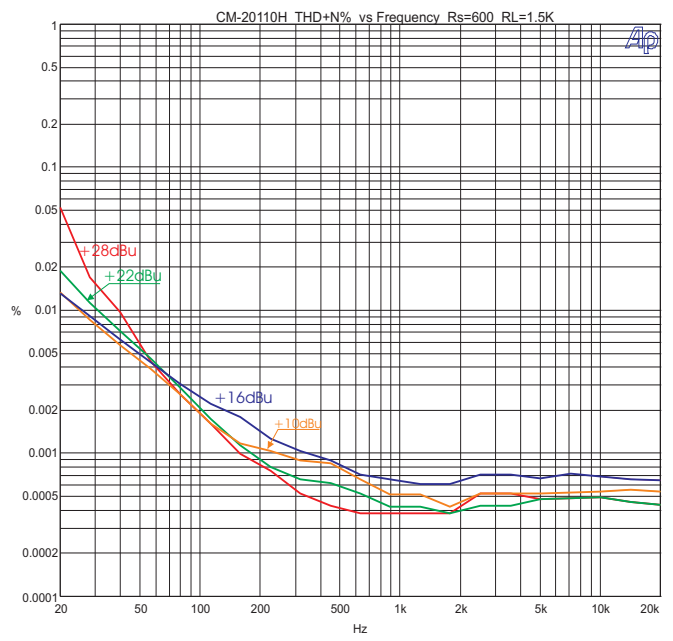
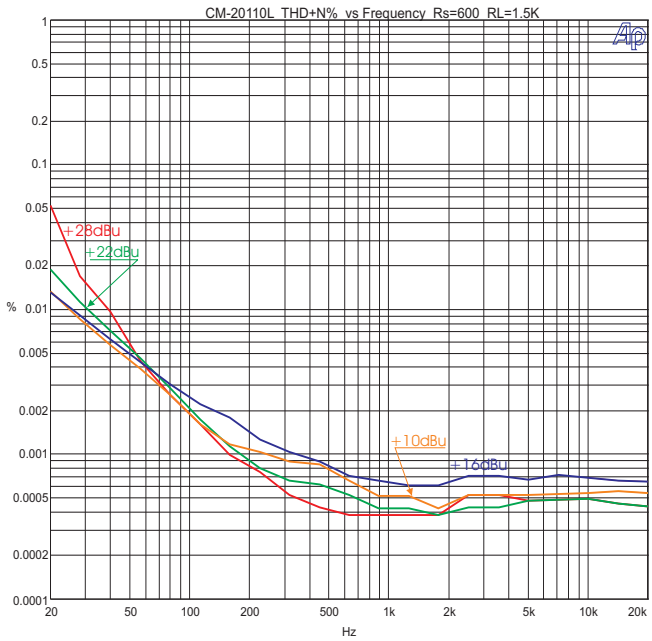
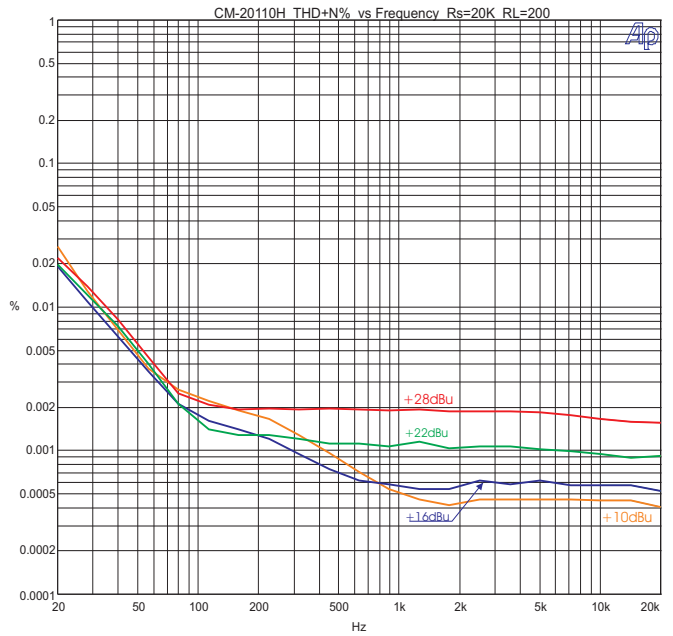
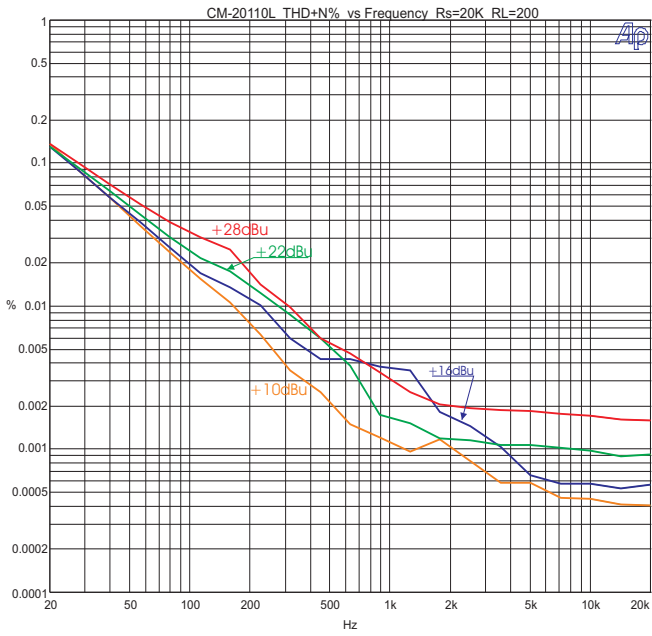
Parameter	Conditions	Typ
Turns Ratio		8.5 : 1.00
Voltage Gain 1kHz	Rs= 600 RL=100K Rs= 600 RL=200 Rs=600 RL=1.5K Rs=10K RL=1.5K Rs=20K RL=1.5K	-18.6dBu -20.9dBu -18.9dBu -19.7dBu -20.4dBu
Distortion (THD+N%)	1 kHz, +24dBu Test Circuit 1 Rs=10K RL=1.5K	0.002%
Max 20 Hz input level	1.0% THD; 10K input, 1.5K secondary load impedance Test Circuit 1	+30dBu
Response, ref 1 kHz	20 Hz +20 dBu Test Circuit 1 20 kHz +20 dBu Test Circuit 1 -3 dB Rs=10K RL=1.5K	-0.1 dB -0.05 dB 120 kHz
Phase Shift at 20 Hz Phase Shift at 20 kHz	Referenced to source generator Rs=10K RL=1.5K Test Circuit 1	-4° -22°
CMRR Rs=10K RL=1.5K	60 Hz Test Circuit 2 per IEE Std 389-1996 ¶19 1 kHz Test Circuit 2 per IEE Std 389-1996 ¶19	≥110 dB 94 dB
Operating Temp Range	Operation and storage	0° C Min 70° C Max

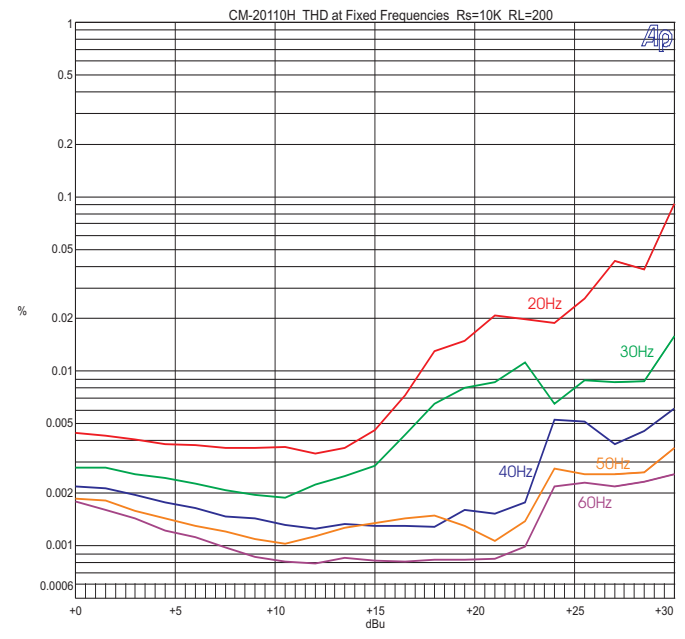
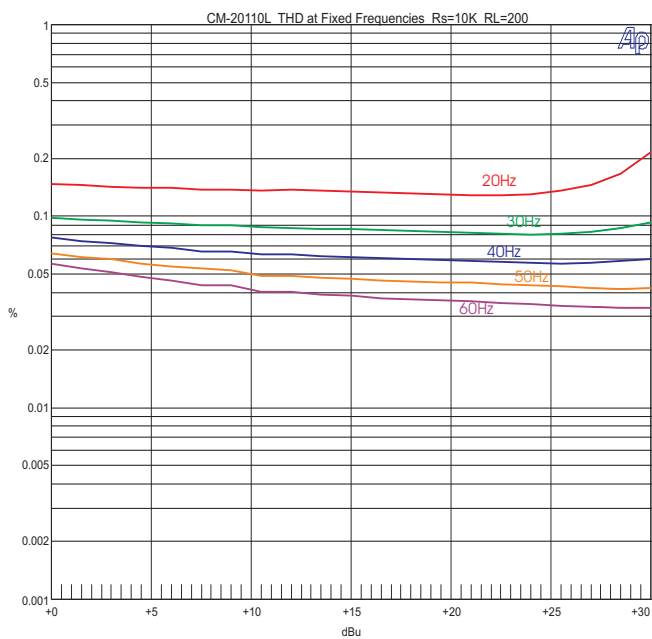
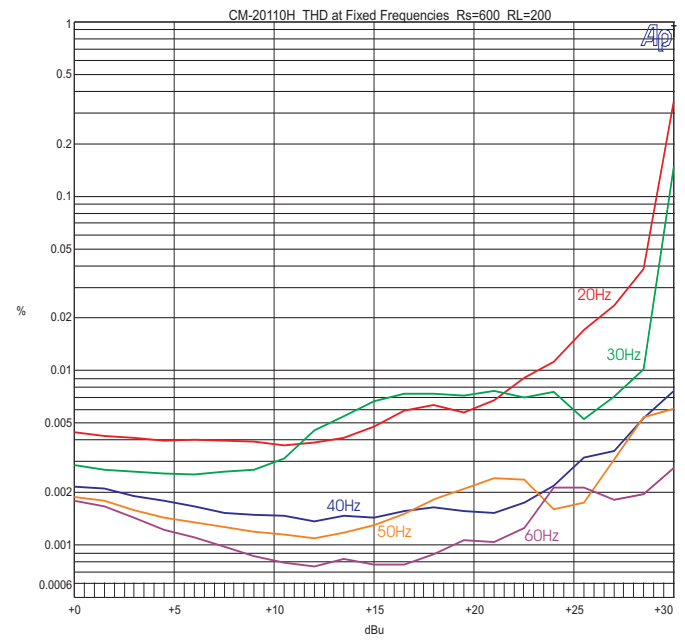
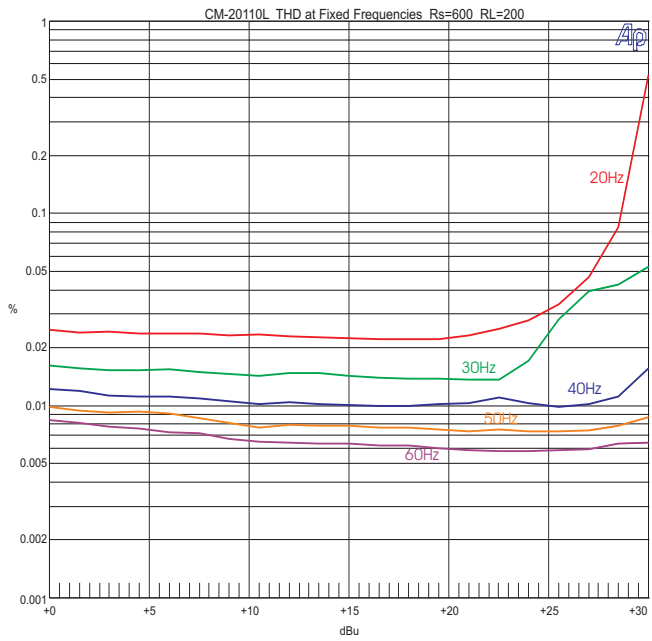
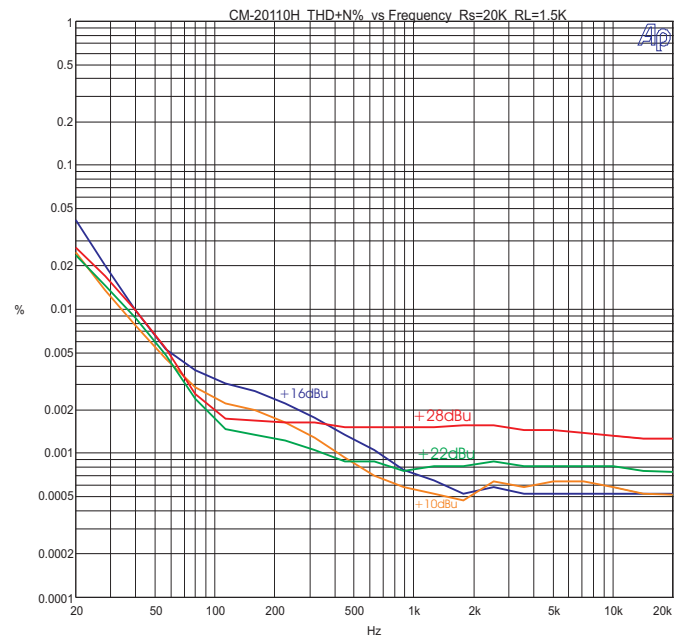
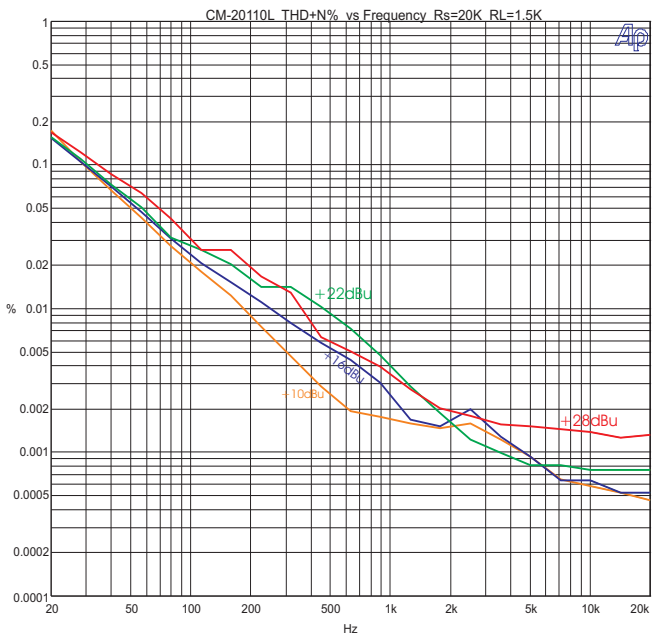
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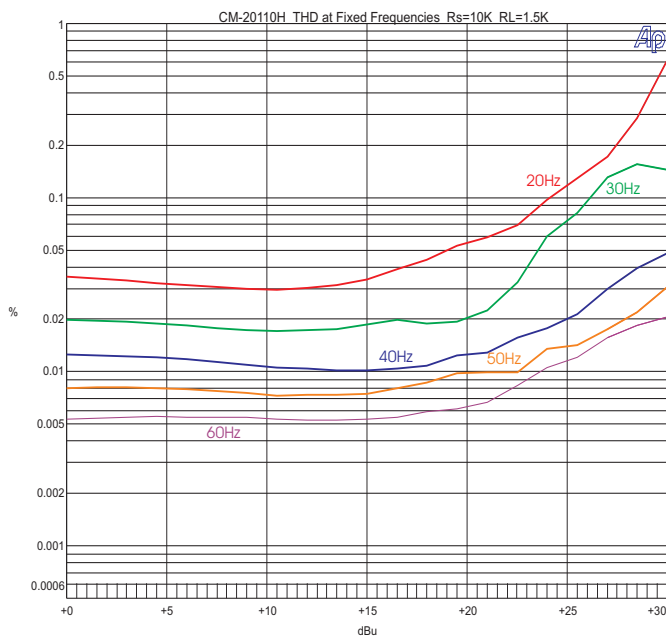
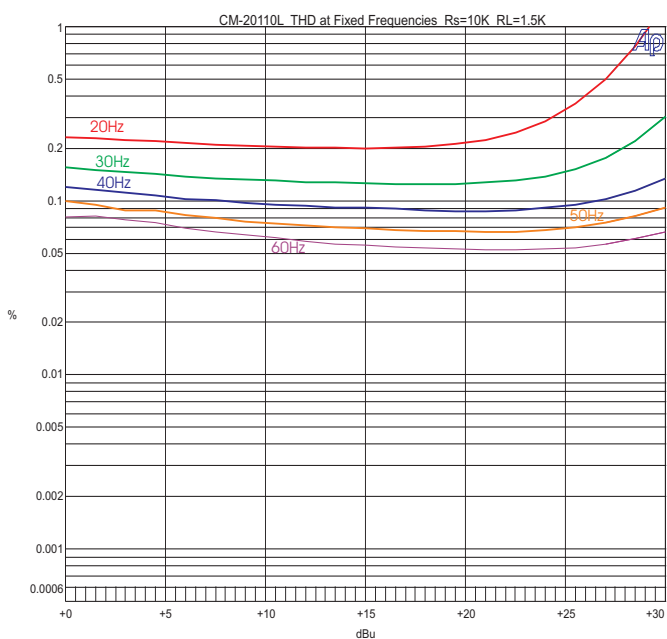
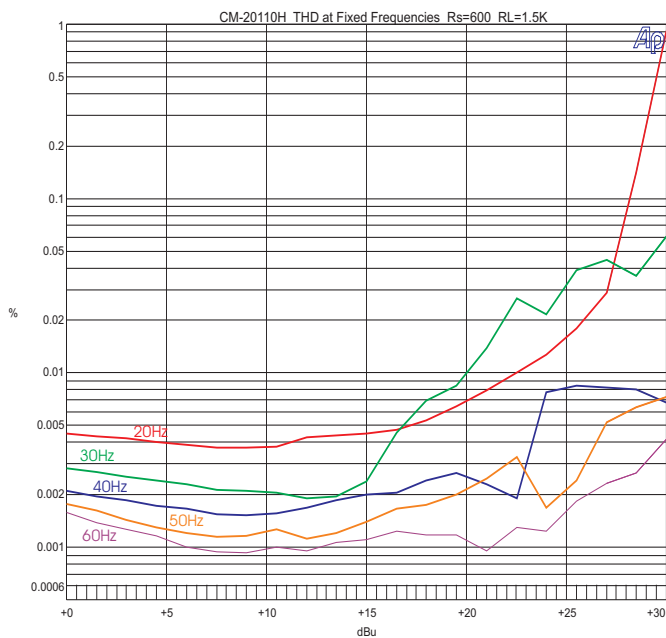
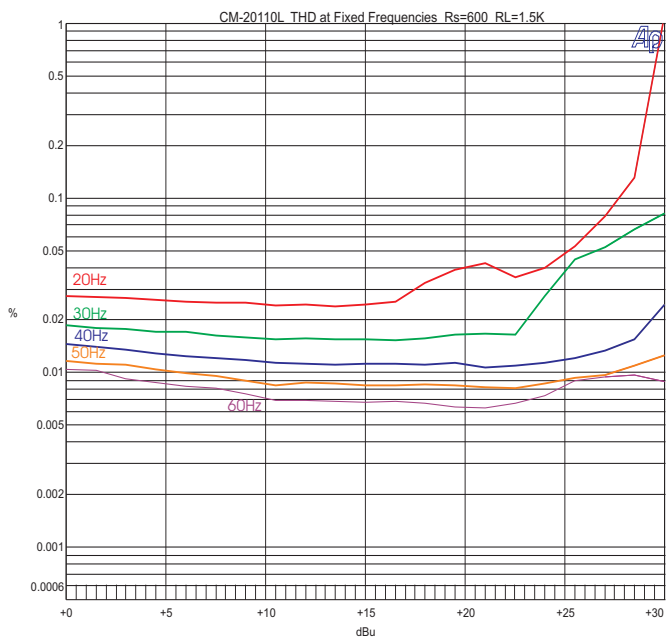
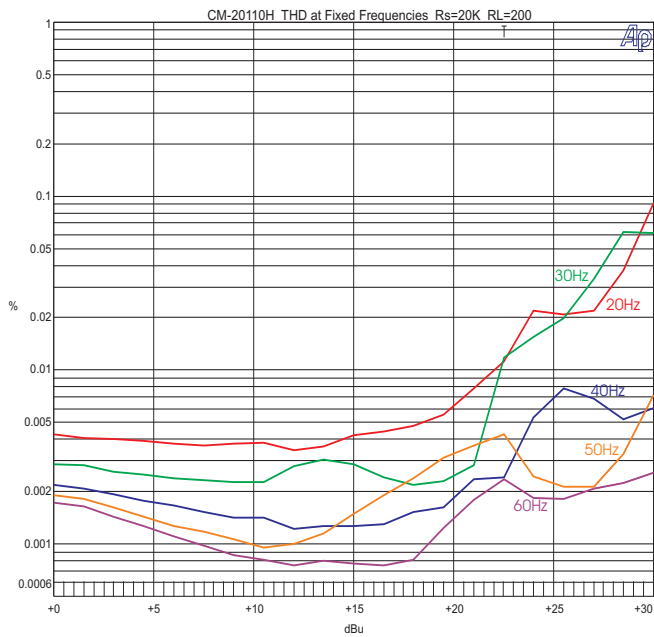
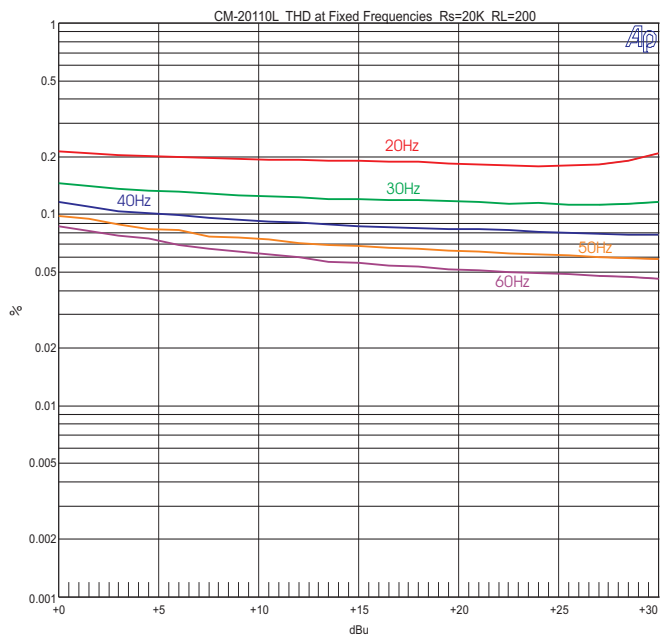
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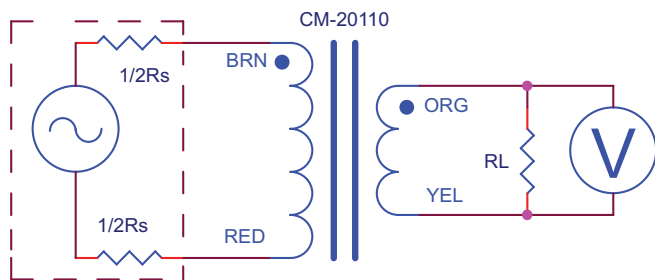
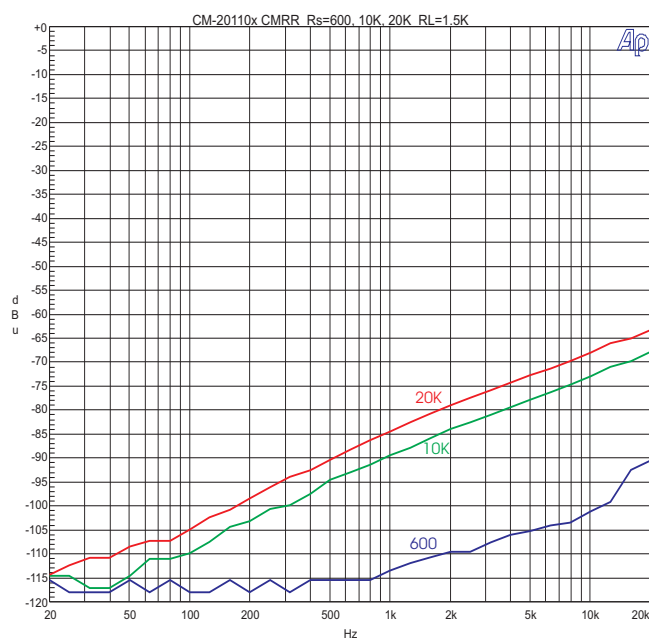
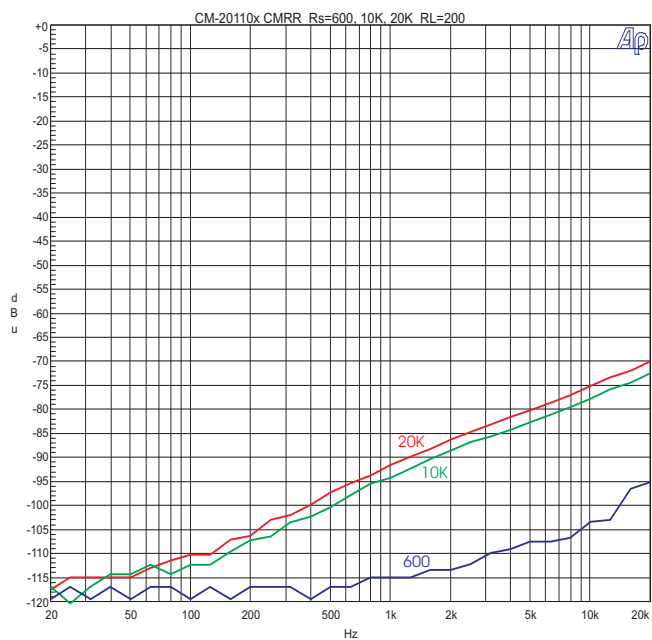
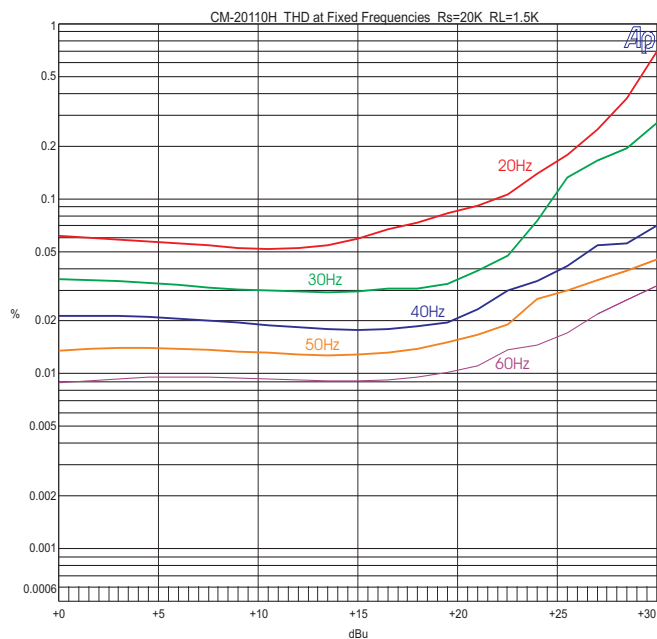
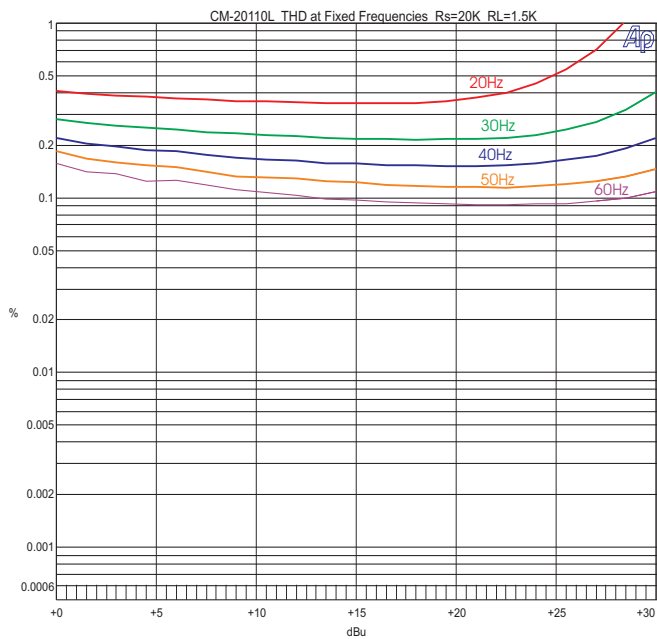
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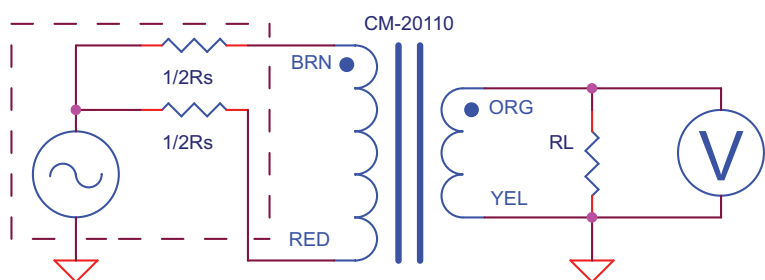








Test Circuit 1



Test Circuit 2

NOTE: All graphs generated from one (1) randomly chosen device. No statistical averaging or weighting. One sweep taken.

