



Reichenbach Engineering



# CM-5121

## Microphone Output Transformer 6.5 : 1 Turns ratio

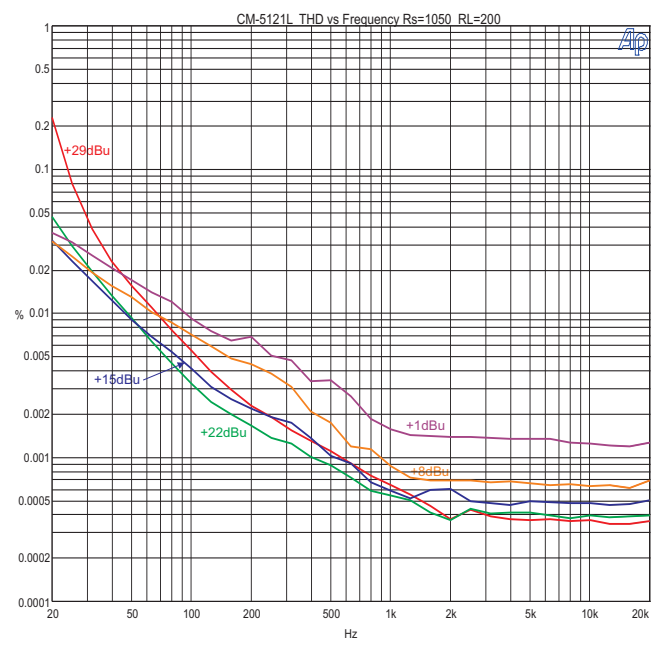
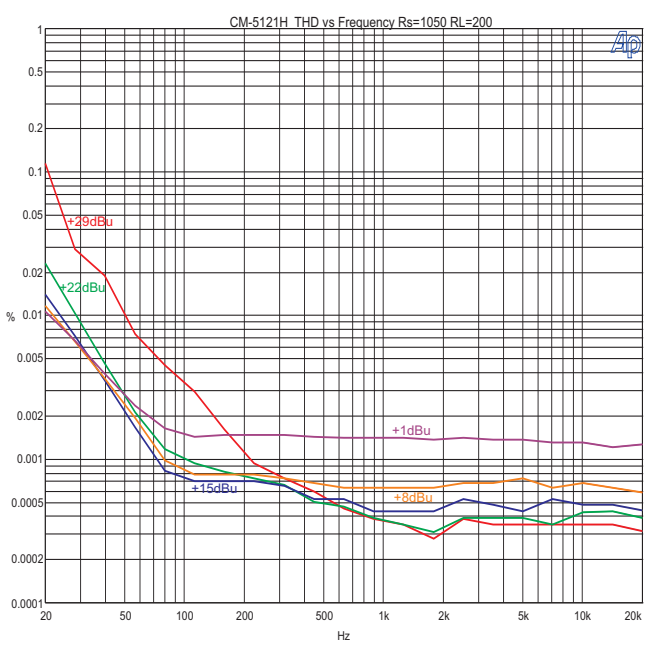
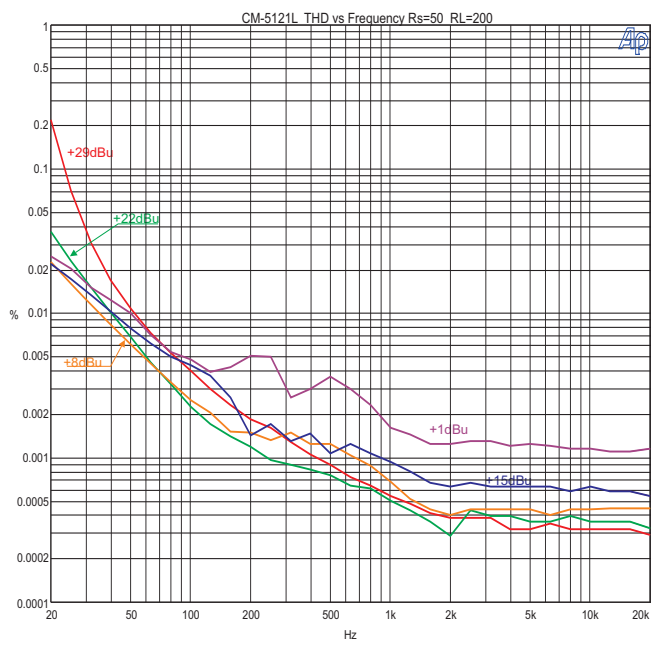
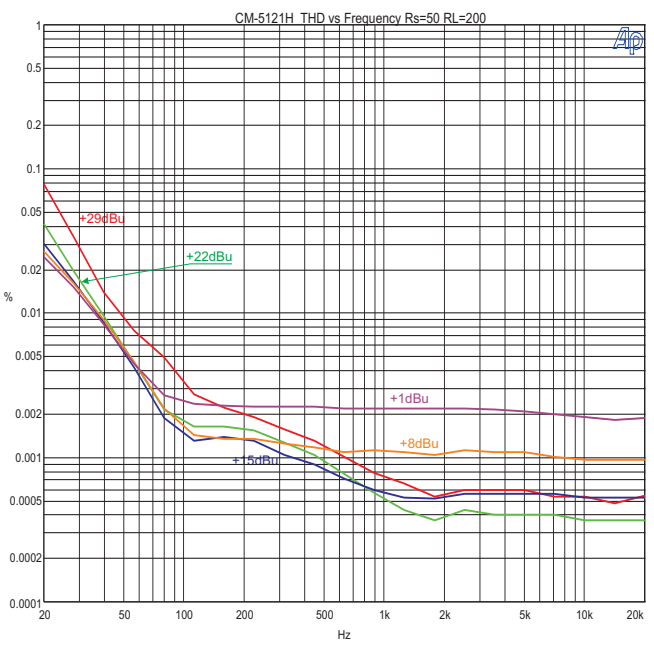
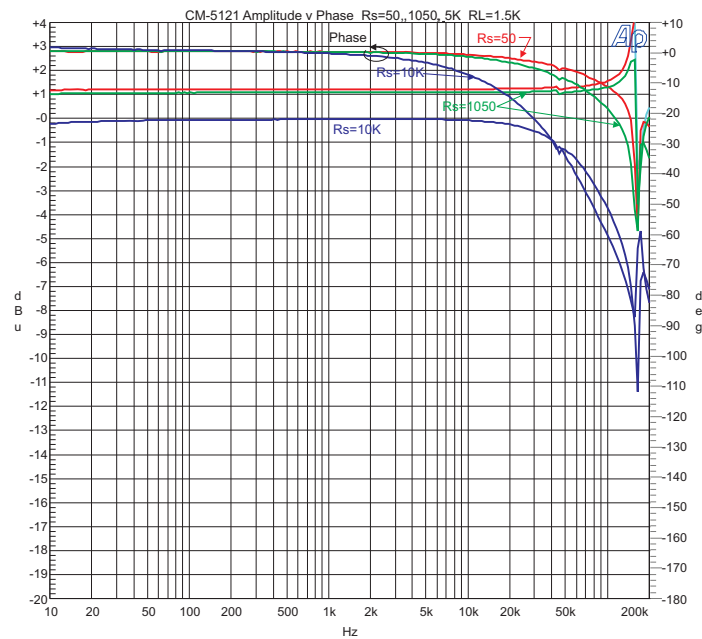
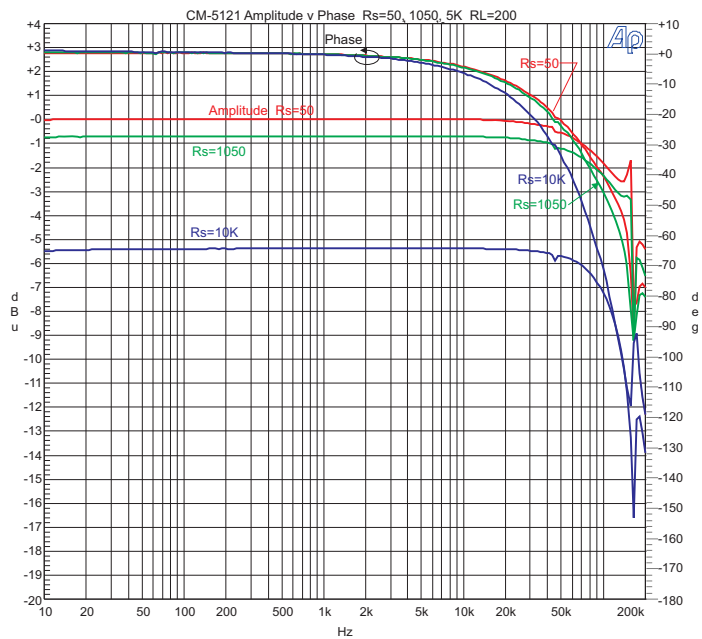
- Excellent bandwidth
- High-nickel (“H”) or 50% High-nickel + 50% steel (“L”) core
- Distortion 0.008% at 20 Hz +0.0 dB in, Rs=50Ω RL=200Ω
- 0.09% THD+N% +29 dBu in Rs=50Ω RL=200Ω
- Phase Shift -15° at 20 kHz, Rs=10K RL=1.5K

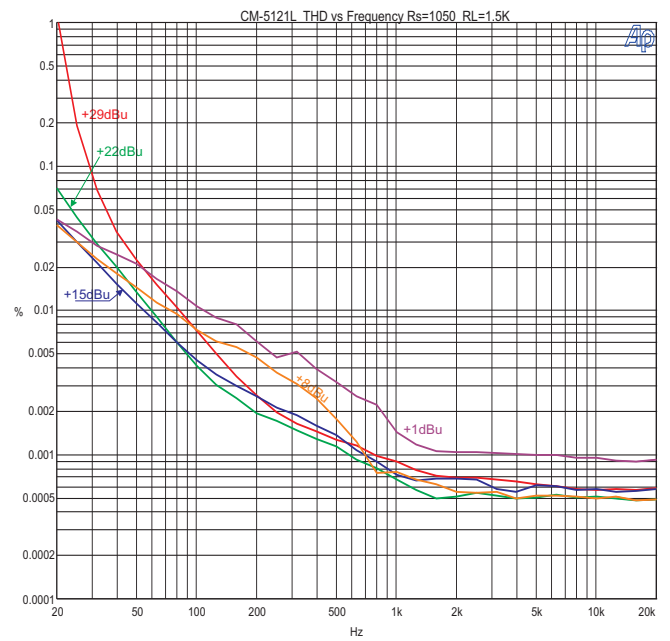
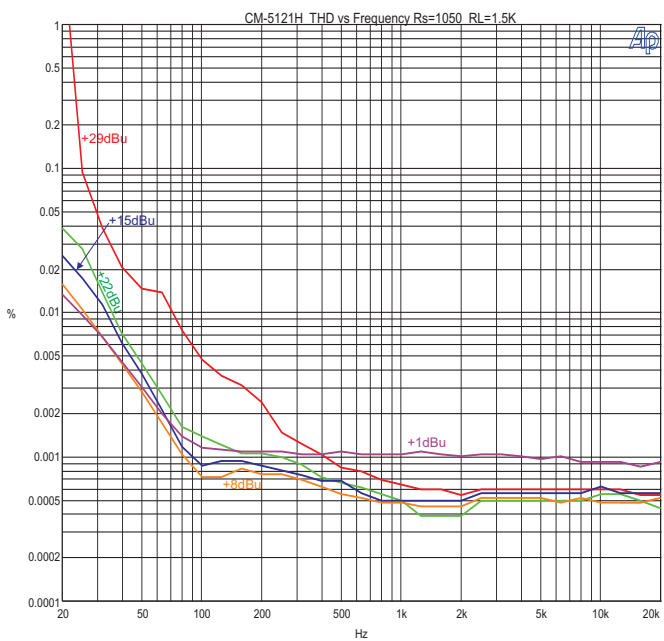
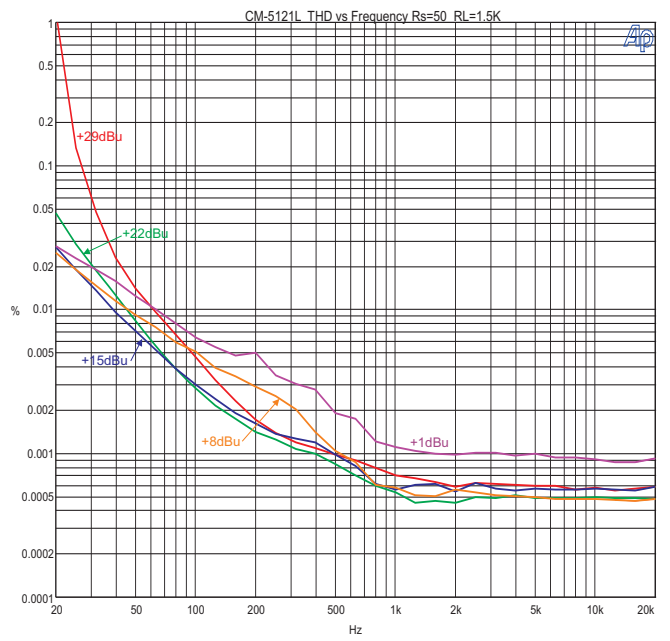
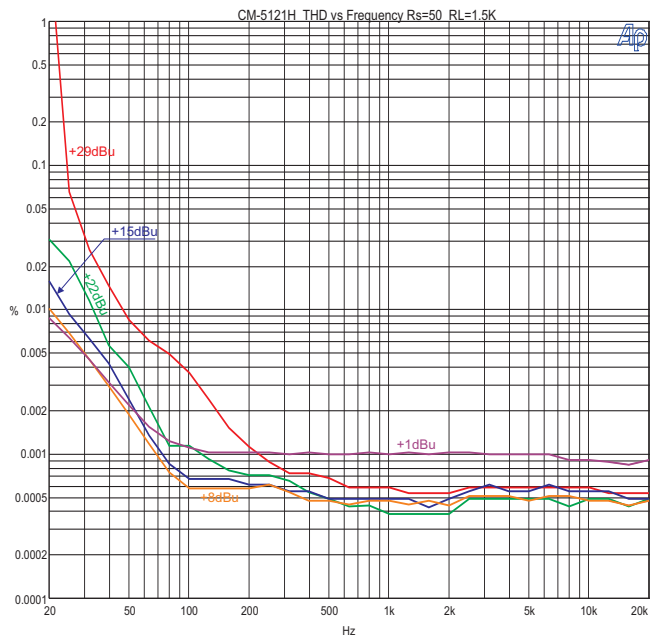
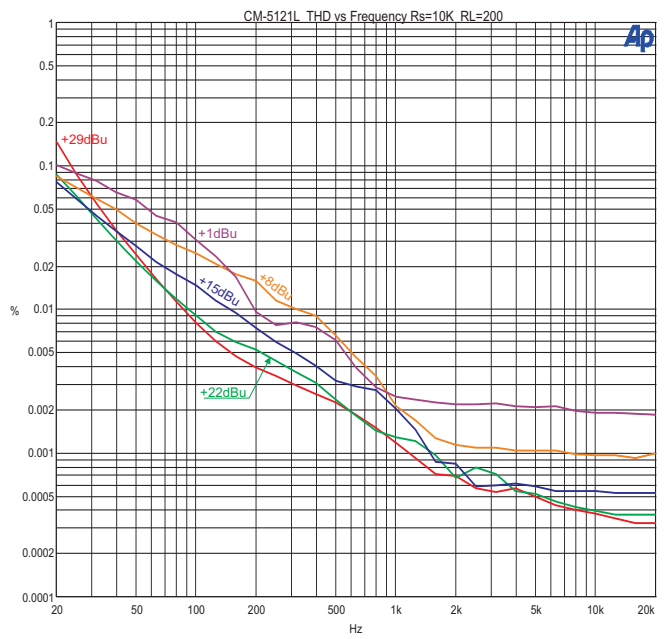
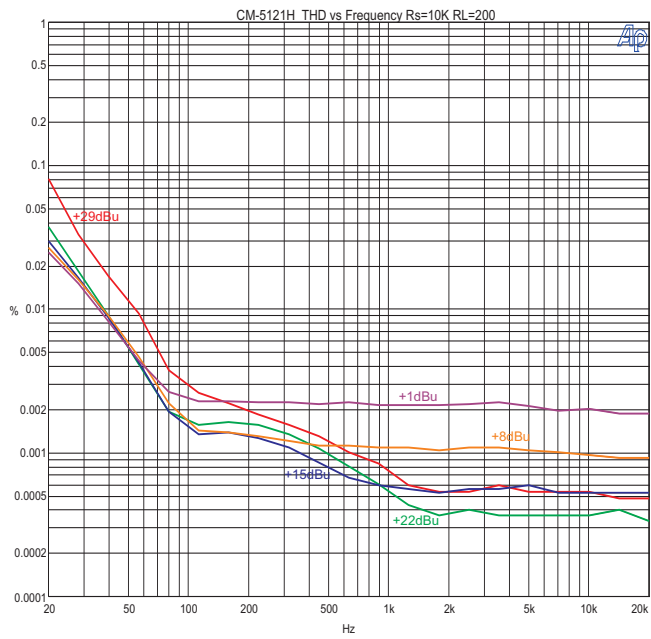
The CM-5121 microphone output transformer is intended for use with vacuum tube condenser microphones. It is available either with a high-nickel core or with a mix of 50% high-nickel plus 50% steel laminations. Because of its hum-bucking construction and precision winding techniques, it has very good immunity to magnetic interference from stray sources. It also has excellent CMRR.

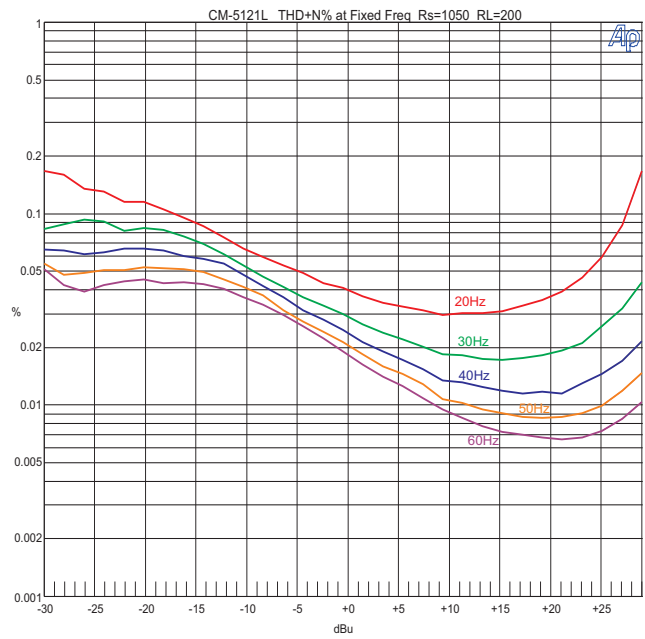
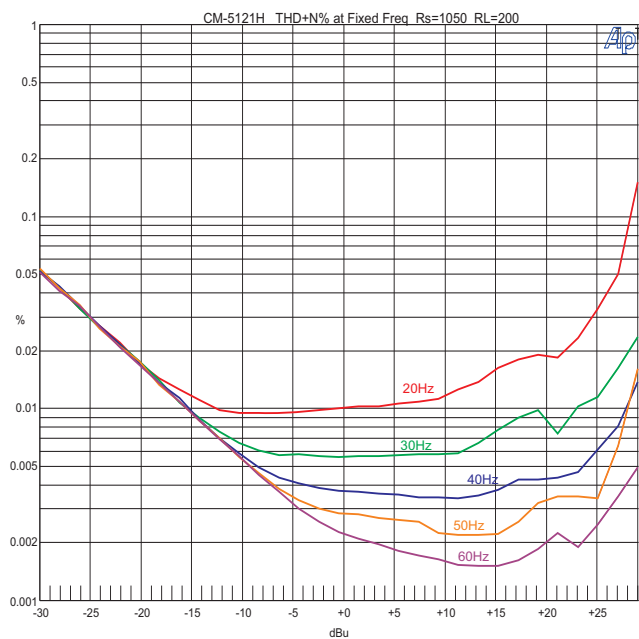
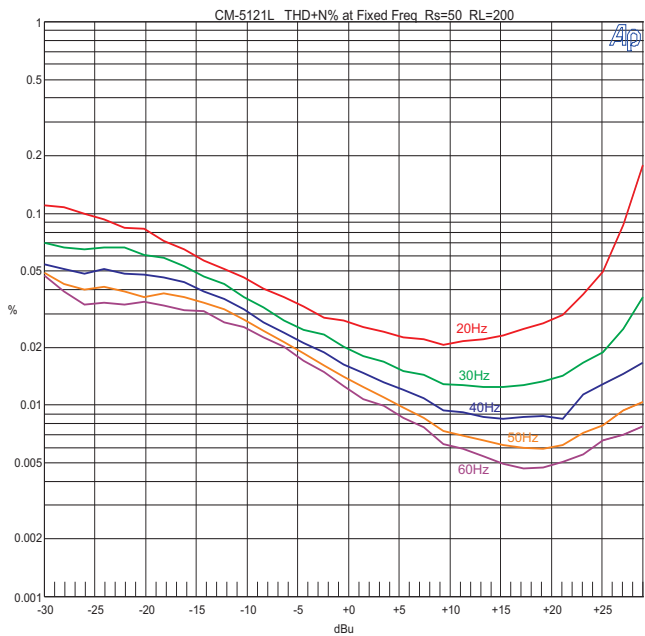
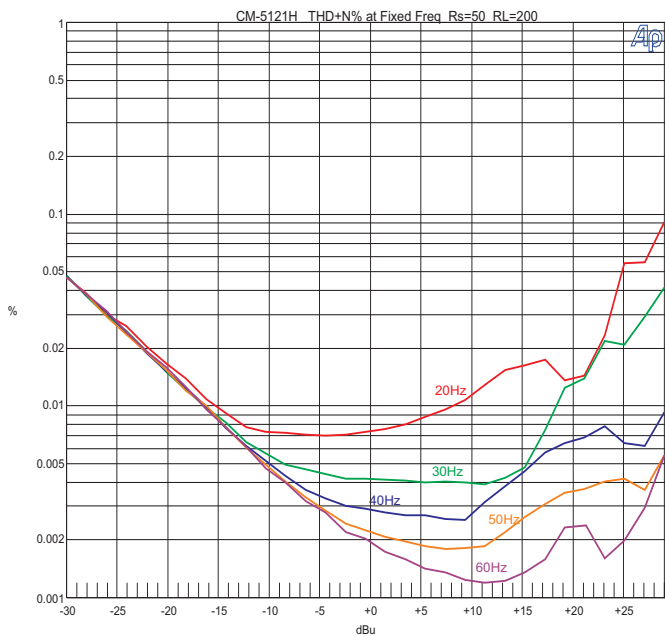
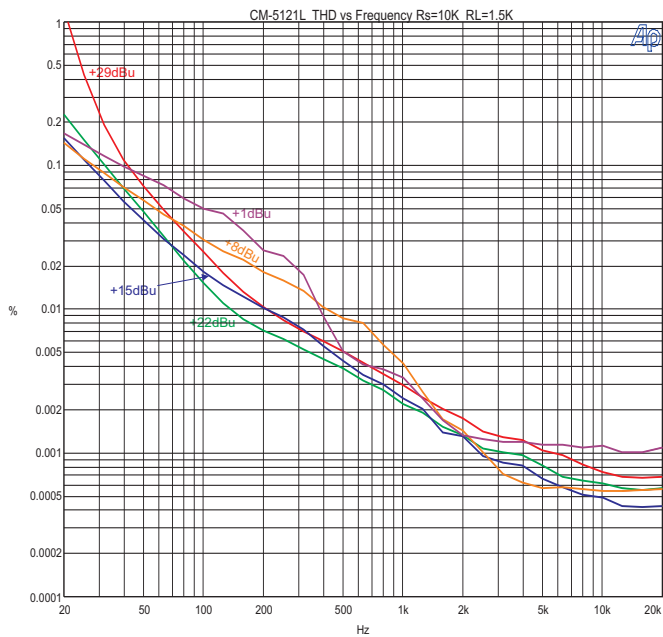
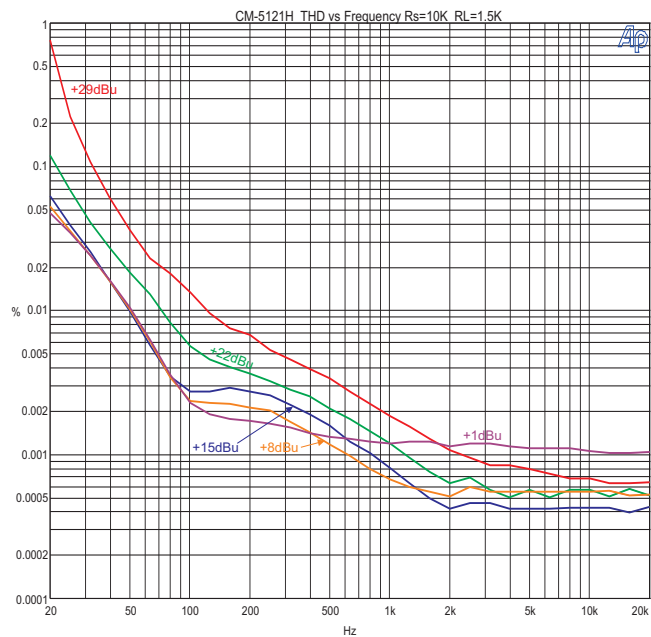
### CM-25121H / CM-5121L

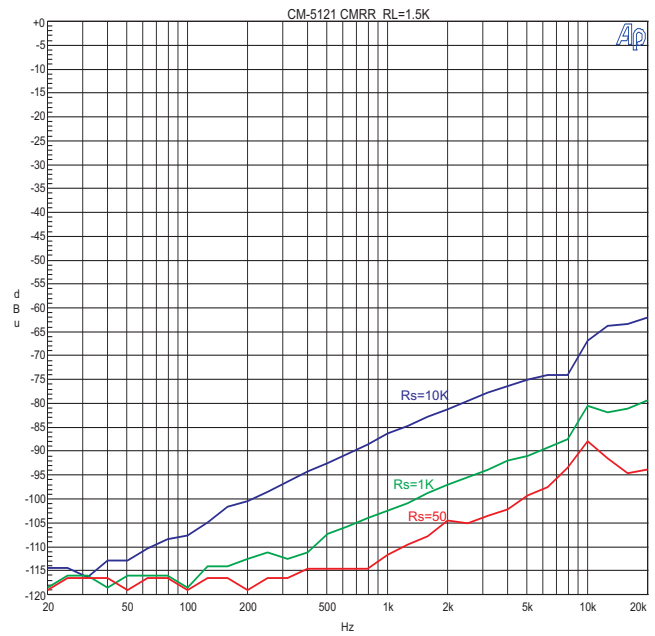
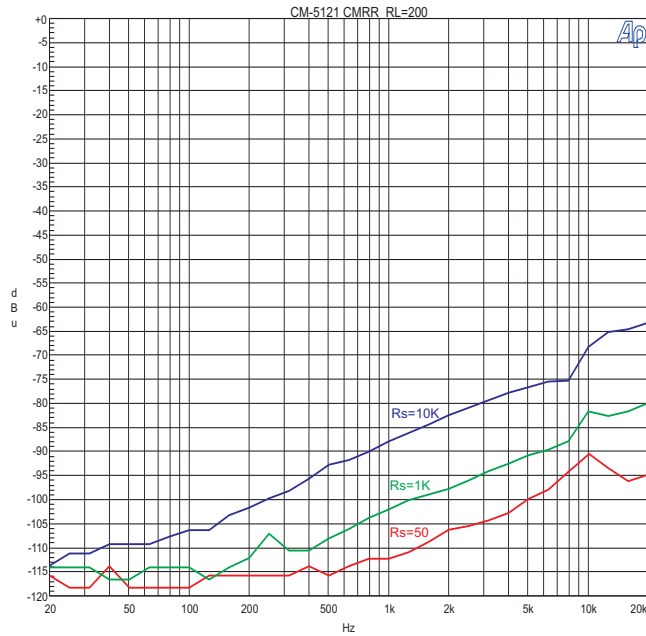
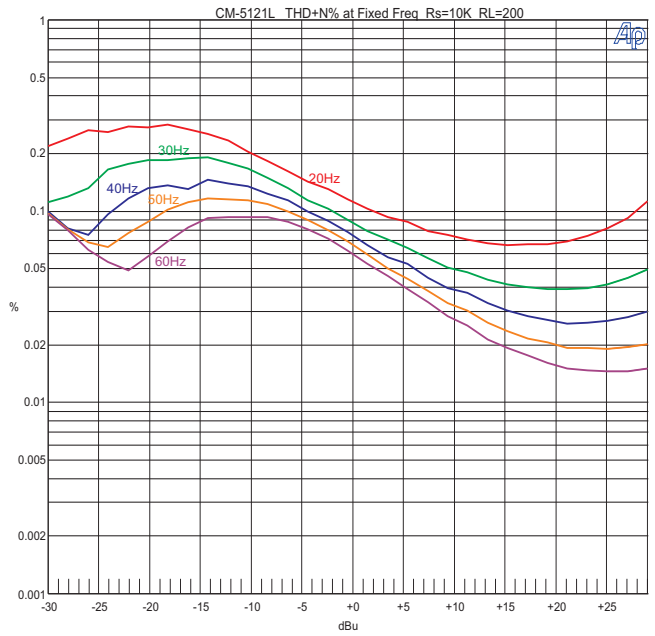
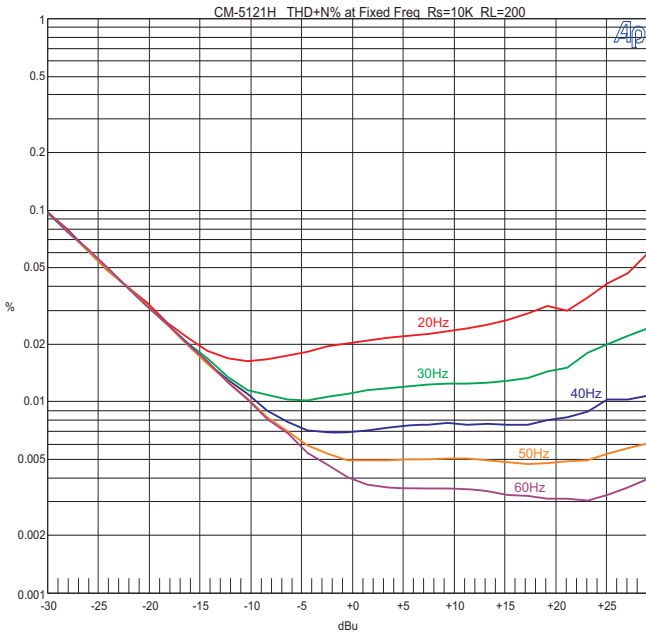
Parameter	Conditions	Typ
Turns Ratio		6.50:1
Voltage Gain	1 kHz HiNi Core, Rs=50Ω RL=1.5K	-16.6dBu
Distortion (THD+N%)	1 kHz, +29 dBu input, Rs=50Ω RL=1.5K Test Circuit 1 1 kHz, +1.0 dBu input, Rs=50Ω RL=1.5K	≤ 0.0004% 0.001 %
Max 20 Hz Input Level	1% THD+N%, Rs=50Ω RL=1.5K Test Circuit 1	+ 28dBu
Response, ref 1 kHz	20 Hz Rs=50 RL=1.5K Test Circuit 1 20 kHz Rs=50 RL=1.5K Test Circuit 1 100 kHz Rs=50 RL=1.5K Test Circuit 1	-0.02dBu -0.1dBu -1.8dBu
Phase Shift at 20Hz Phase Shift at 20 kHz	Referenced to source generator Rs=50 RL=1.5K Test Circuit 1	-1° -8°
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 Rs=50 RL=1.5K Test Circuit 3 1 kHz Rs=50 RL=1.5K	115dB 112dB
Operating Temp Range	Operation and storage	0° C Min 70° C Max

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

