



Superior Magnetics Since 1979



# CM-2461NiCo

**TUBE MICROPHONE OUTPUT TRANSFORMER**  
**6.5 : 1 Turns Ratio**  
**Nickel/Steel/Cobalt Core**

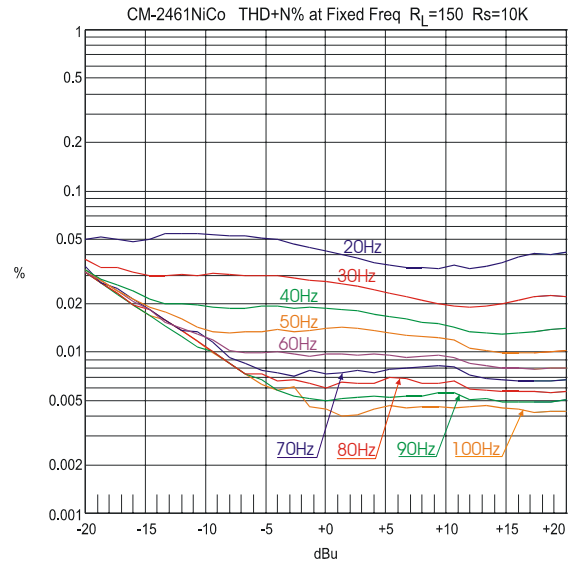
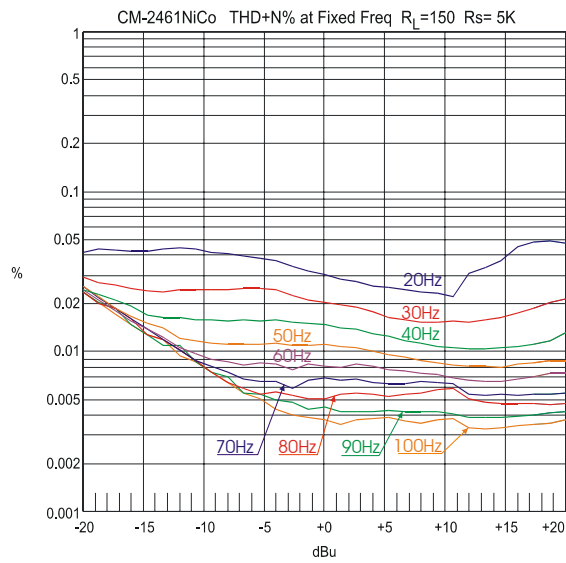
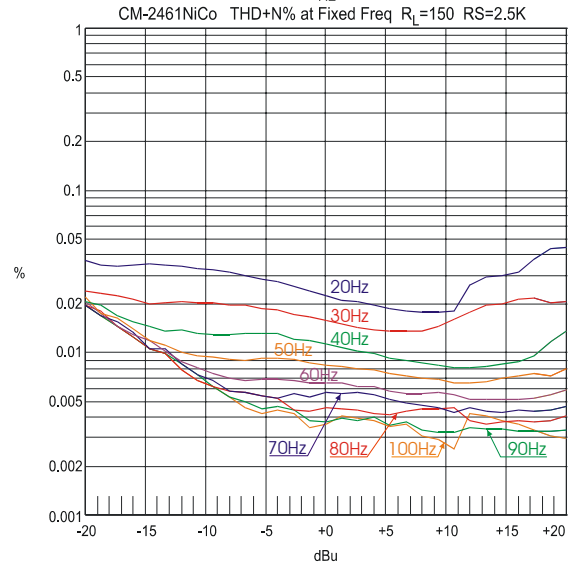
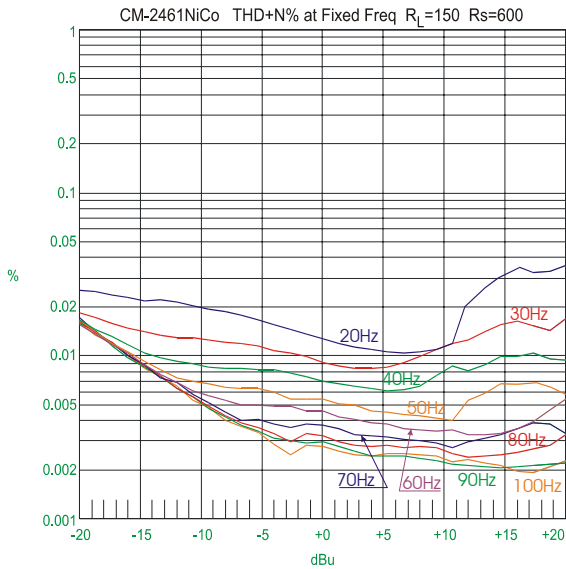
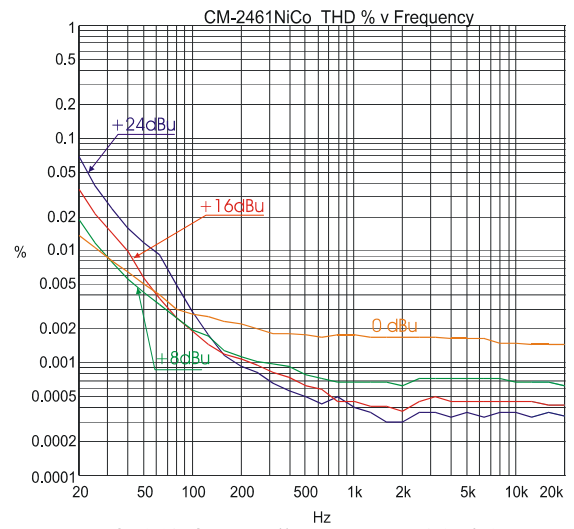
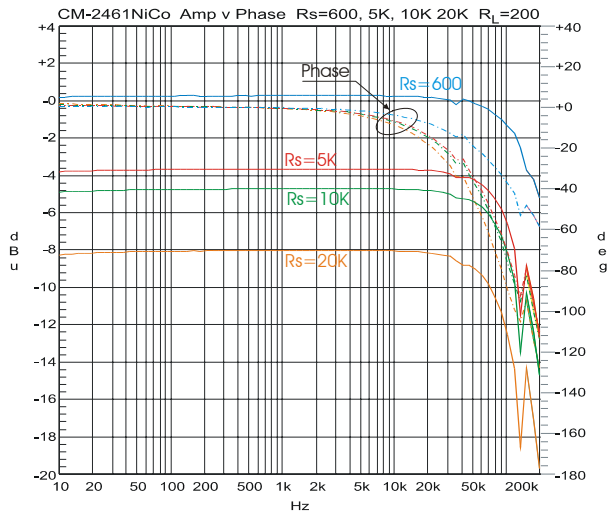
- **Superb Bandwidth**
- **Enhanced “coloration” with non-complex harmonics**
- **Low distortion**
- **Phase Shift -16° at 20 kHz**
- **Twin Bobbin construction**

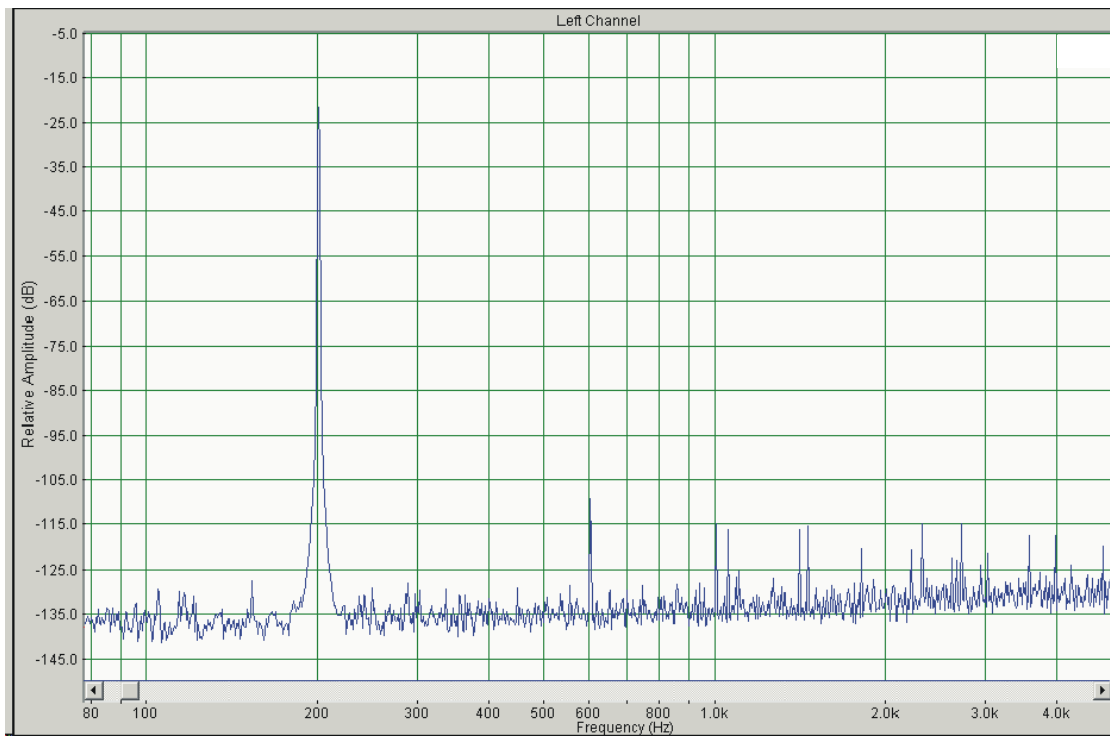
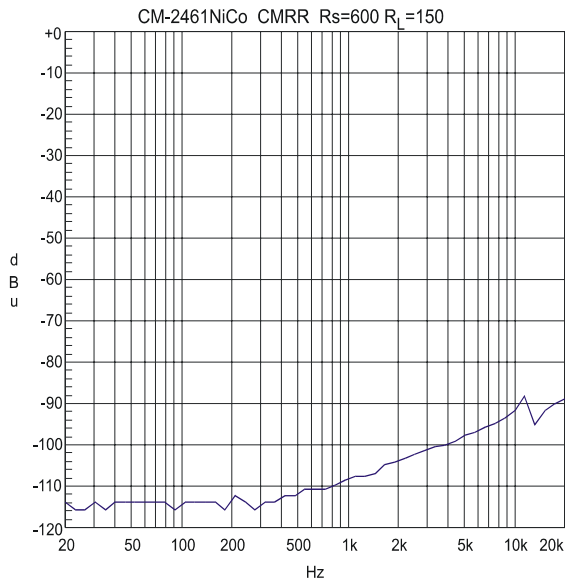
The CineMag CM-2461NiCo tube microphone output transformer is intended to provide excellent bandwidth with carefully engineered sound “coloration.” Its performance is not compromised when driven from high impedance sources. This enables it to work quite well even with triode output stages. The lamination stack is made up of high nickel, cobalt, and steel laminations. Each is specially annealed to Cinemag’s specifications to obtain the desired spectral response. It uses a hum-bucking design giving it very good rejection of stray magnetic interference. Being very well balanced, it also has excellent CMRR.

## CM-2461NiCo

Parameter	Conditions	Typ
Turns Ratio		6.5 : 1
Voltage Gain	1kHz Rs=600 RL=100K	-16.26 dBu
	1kHz Rs=600 RL=200	-19.53 dBu
	1kHz Rs=600 RL=1.5K	-16.77 dBu
	1kHz Rs=2.5K RL=1.5K	-17.09 dBu
	1kHz Rs=5K RL=1.5K	-17.42 dBu
	1kHz Rs=10K RL=1.5K	-18.02 dBu
	1kHz Rs=20K RL=1.5K	-19.13 dBu
Distortion (THD+N%)	1 kHz, +24 dBu, Rs=2.5K RL=150 Test Circuit 1	0.003%
Max 20 Hz input level	0.1% THD+N% Test Circuit 1	+24 dBu
Response, ref 1 kHz	10 Hz Rs=5K RL=150 Test Circuit 1	-0.01 dB
	20 kHz	-0.02 dB
	100 kHz	-2 dB
Phase Shift at 20Hz Phase Shift at 20 kHz	Referenced to source generator Test Circuit 1	+1°
	Rs=5K RL=150	-16°
CMRR	60 Hz Test Circuit 2 per IEE Std 389-1996 ¶19	114 dB
	1 kHz	108 dB
	20 kHz	89 dB
Operating Temp Range		0° C Min 70° C Max

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NOTES:

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

