QUALITY MAGNETICS SINCE 1979

CM-9994A

Microphone Input Transformer
150/600 : 85K

- **Very good bandwidth**
- **Hum-bucking construction**
- **High-nickel ("H") core**
- **0.09% THD+N% +29 dBu in Rs=50Ω RL=200Ω**
- **Phase Shift -15° at 20 kHz, Rs=10K RL=1.5K**

The CM-9994A microphone input transformer is intended for vacuum tube preamplifiers requiring an input transformer with a large step-up turns ratio. It is hum-bucking for maximum inherent ability to reject stray magnetic interference. It is provided in a µ-metal case for maximum stray magnetic field immunity. It also has excellent CMRR.

CM-9994A

Parameter	Conditions	Typ
Turns Ratio		1:11.9 / 23.8
Voltage Gain	1 kHz Rs=150Ω RL=500K Test Circuit 1 1kHz Rs=600Ω RL=500K Test Circuit 2	+26.75dBu +20.73dBu
Distortion (THD+N%)	1 kHz, +8 dBu input, Rs=150 RL=1.5K Test Circuit 1 1 kHz, +1.0 dBu input, Rs=600 RL=1.5K Test Circuit 2	0.007% 0.004%
Max 20 Hz Input Level	1% THD+N%, Rs=150 RL=500K Test Circuit 1 1%THD+N%, Rs=600 RL=500K Test Circuit 2	+ 3dBu >+24dBu
Response, ref 1 kHz	20Hz Rs=50 RL=150K Test Circuit 1 20kHz Rs=50 RL=150K Test Circuit 1 20Hz Rs=600 RL=500K Test Circuit 2 20kHz Rs=600 RL=500K Test Circuit 2	-0.8dBu -2dBu -1dBu -2dBu
Phase Shift at 20Hz Phase Shift at 20 kHz	Referenced to source generator Rs=150 RL=1.5K Test Circuit 1	+8° -34°
CMRR	60 Hz Test Circuits 1& 2 per IEEE Std 389-1996 ¶19 1 kHz Test Circuit 1&2 per IEEE Std 389-1996 ¶19	>106 dB >84dB
Operating Temp Range	Operation and storage	0° C Min 70° C Max

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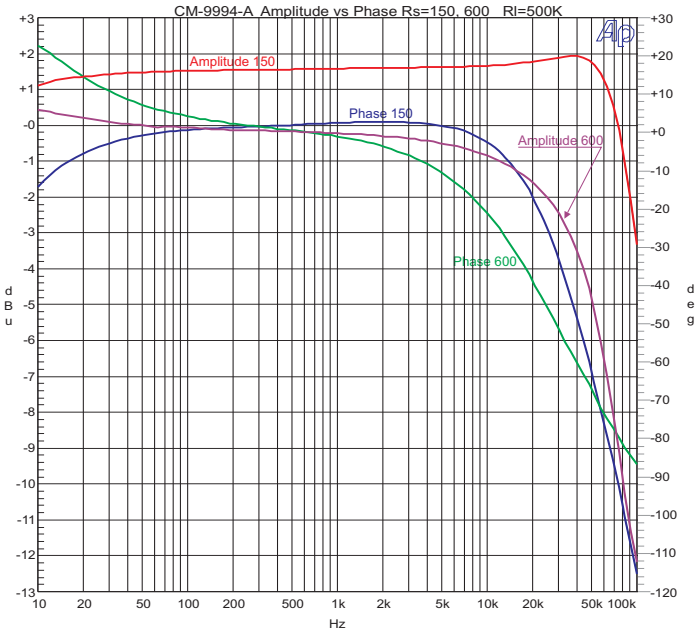
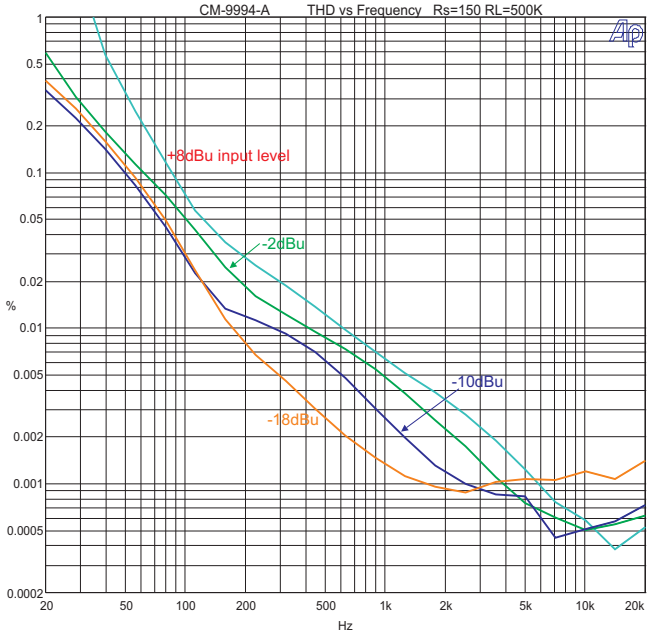
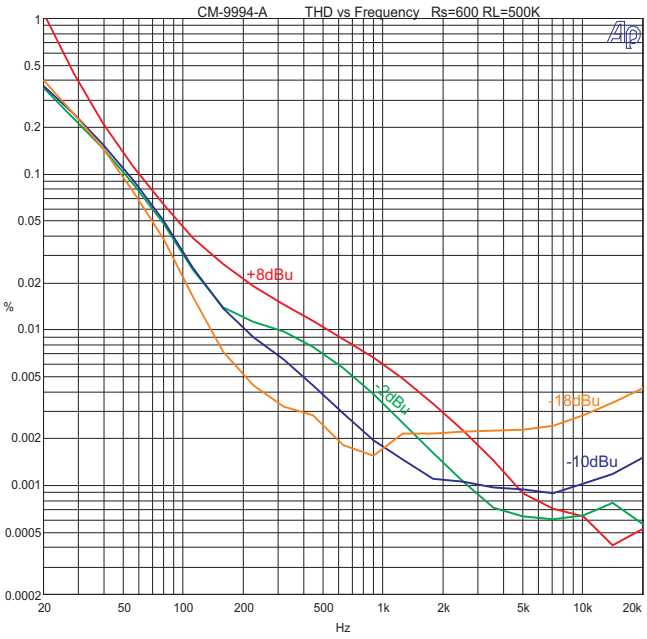
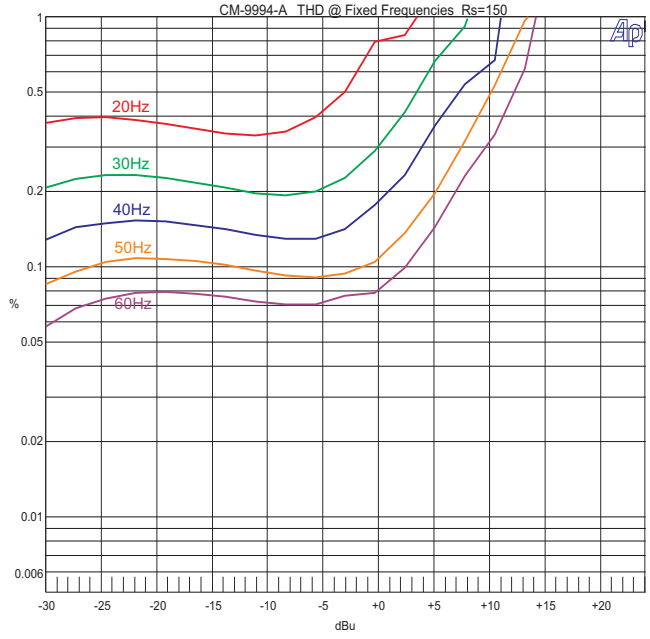
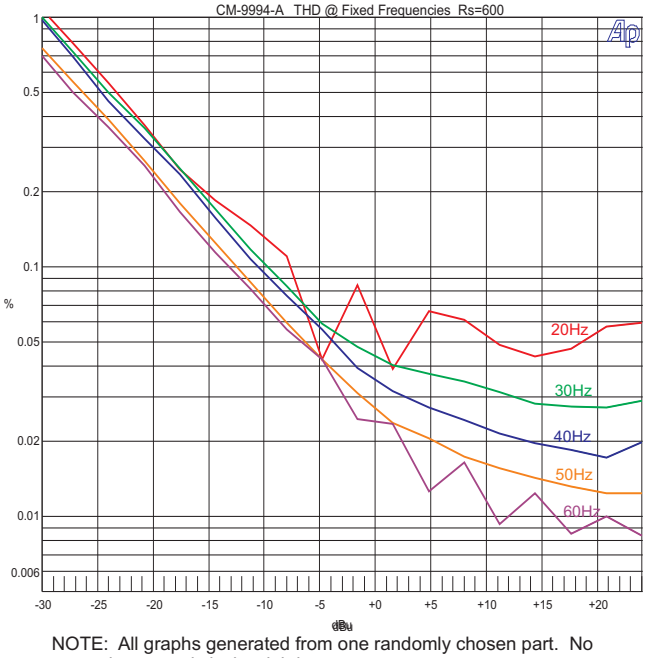
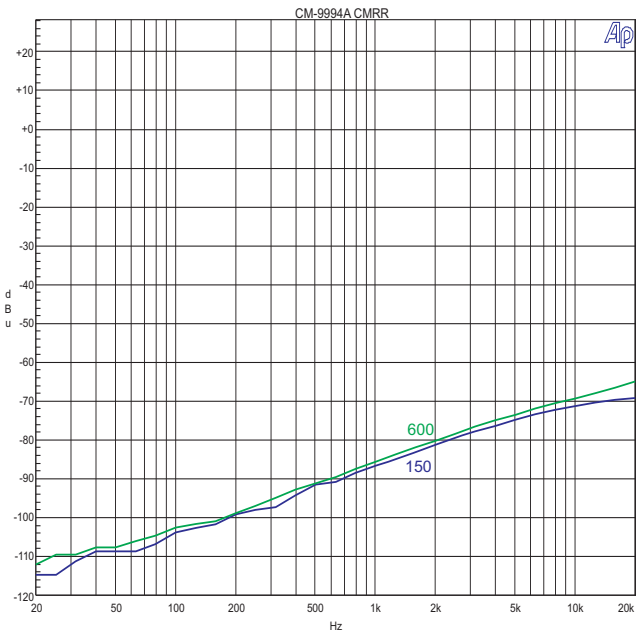




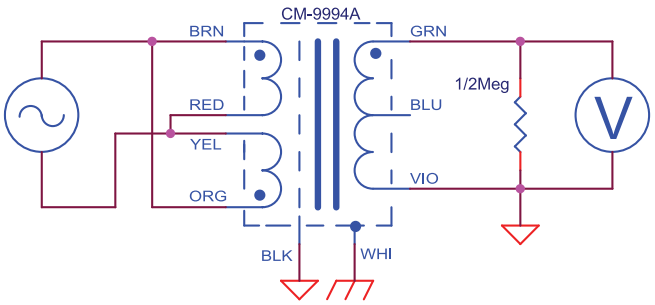




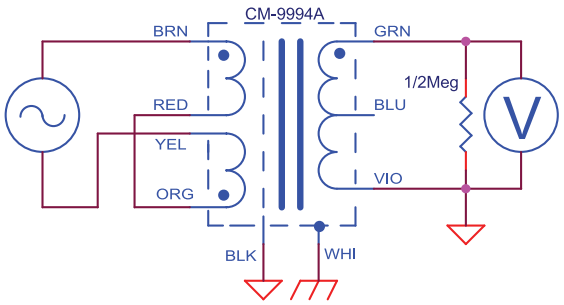




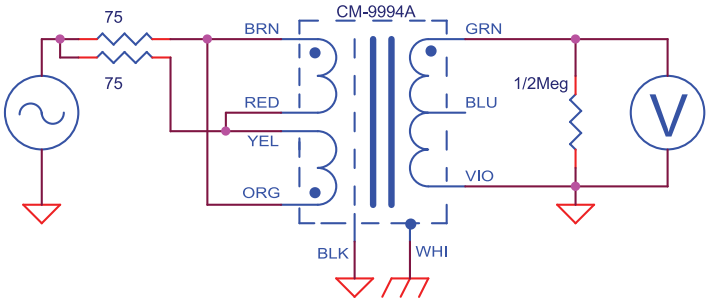
NOTE: All graphs generated from one randomly chosen part. No averaging or statistical weighting.



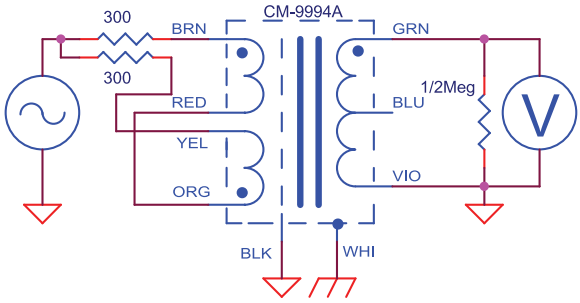
Test Circuit 1



Test Circuit 2



Test Circuit 3



Test Circuit 4