



Superior Magnetics Since 1979



CM-DBX

“Direct Box” Transformer 12 : 1 Step-down

- **Converts unbalanced line levels to balanced mic level**
- **Feed long cables without high frequency loss problems**
- **Helps to eliminate hum problems in musical instrument hookups**
- **Very Good CMRR: 105 dB at 60 Hz, 89 dB at 1 kHz**
- **Very wide bandwidth and low phase shift**
- **PC mount and lead packages**

The CineMag CM-DBX “Direct Box” transformer provides an excellent solution for the problem of controlling hum and buzz with feeds from musical instruments. It can be driven from moderately high impedance as well as lower impedance sources. It exhibits excellent bandwidth, very low phase shift, very good common mode rejection ratio (CMRR), and very good distortion characteristics. It is available in both lead and p.c. mount packages. The CM-DBX is encased in a μ Metal can which provides 30 dB of magnetic shielding. All the wires connecting the internal foil shields between windings are spot welded for maximum long term reliability, as is done with all CineMag transformers.

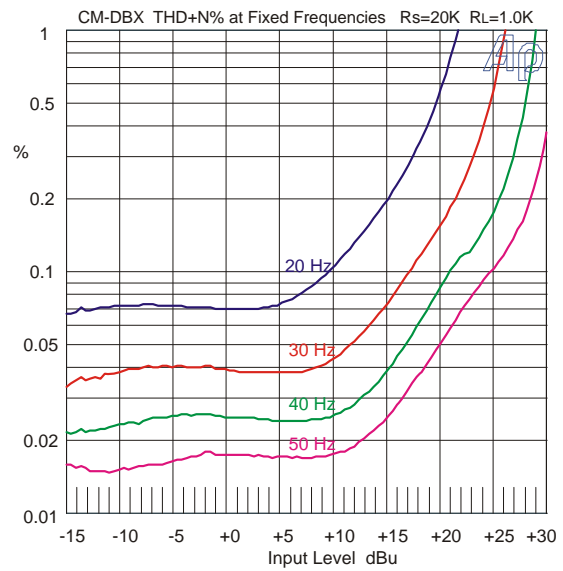
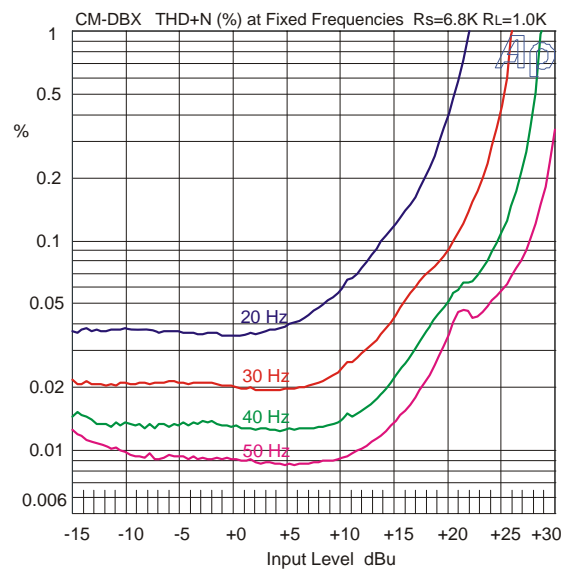
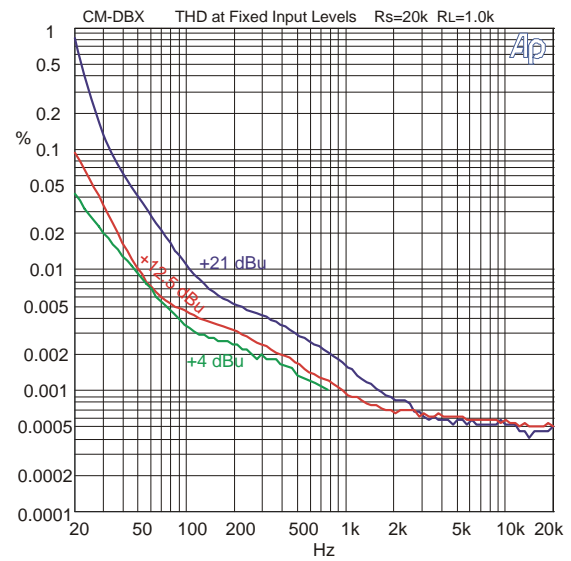
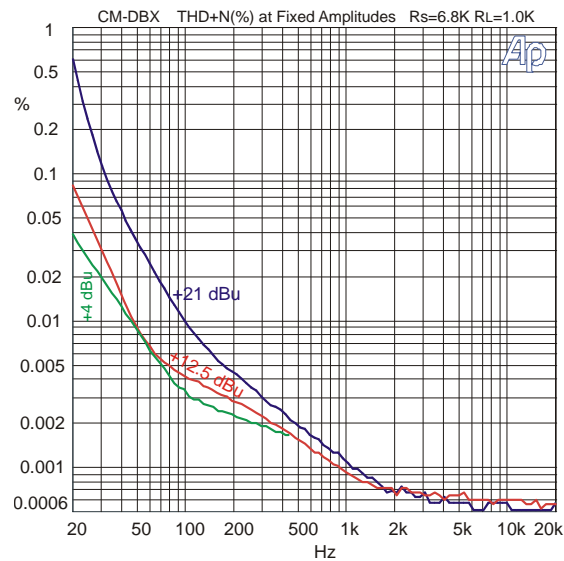
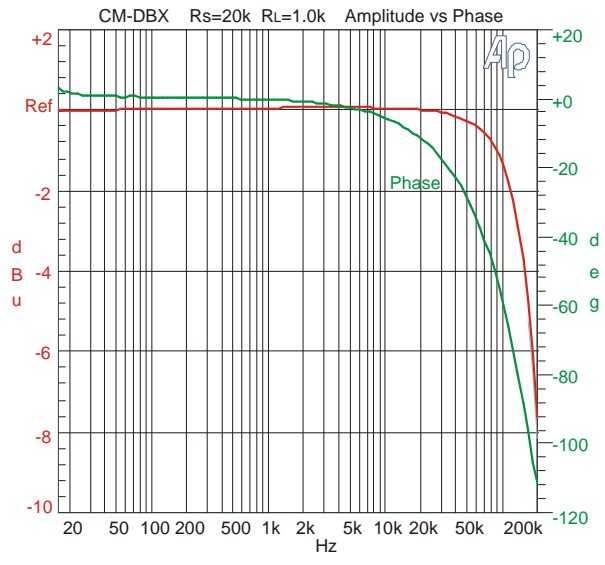
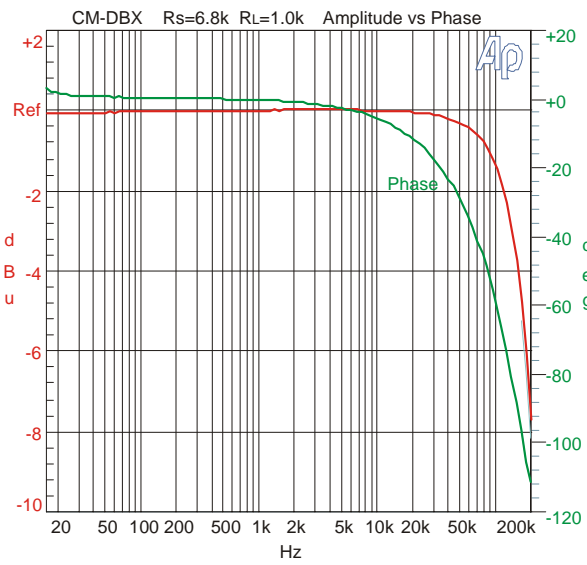
CM-DBX[PC]

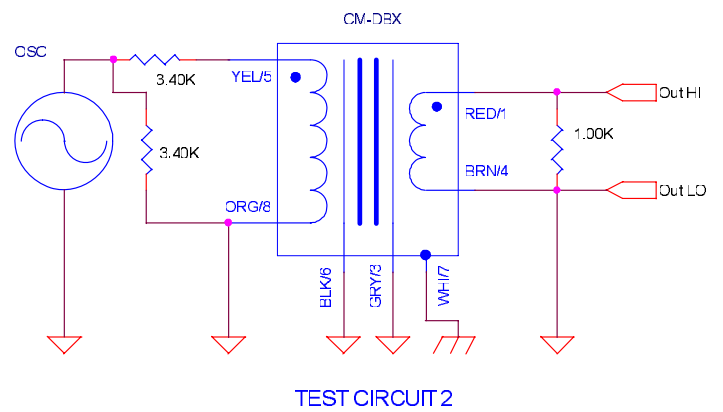
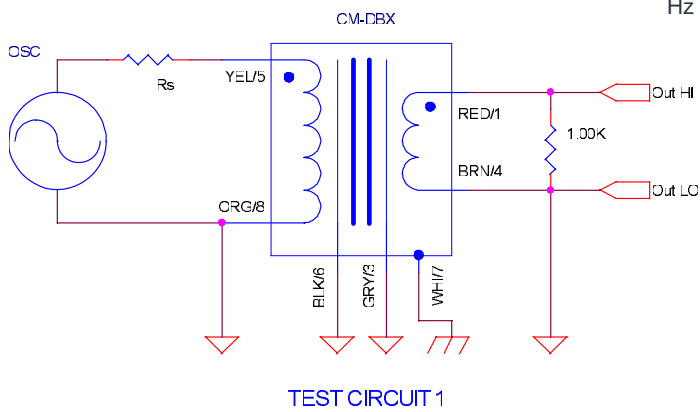
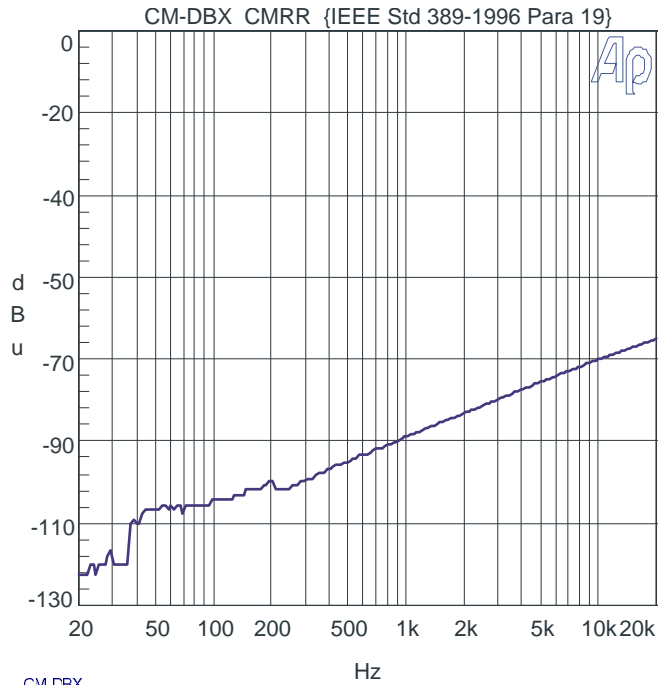
Parameter	Conditions	Typ
Turns Ratio		11.52 : 1
Voltage Gain	1 kHz, +4 dBu, 6.8K source impedance, 1K secondary load impedance	-22 dB
Distortion (THD+N%)	1 kHz, +12.5 dBu Test Circuit 1	0.0015%
	20 Hz, +4 dBu Test Circuit 1	0.04%
Max 20 Hz input level	1.0% THD; 6.8K source impedance, 1K secondary load impedance. Test Circuit 1	+21.5 dBu
Response, ref 1 kHz	20 Hz +4 dBu Test Circuit 1	-0.1 dB
	20 kHz +4 dBu Test Circuit 1	-0.01 dB
	-3 dB	150 kHz
Phase Shift at 20 Hz	Referenced to source generator	+3°
Phase Shift at 20 kHz	Test Circuit 1	-13°
CMRR	60 Hz Test Circuit 2 per IEEE Std 389-1996 ¶19	105 dB
	1 kHz Test Circuit 2 per IEEE Std 389-1996 ¶19	89 dB
Operating Temp Range	Operation and storage	0° C Min 70° C Max
Max Soldering Temp.	5 Seconds	335° 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.

