



Superior Magnetics Since 1979

CMMI-10C

Microphone Input Transformer 1 : 10 Step-up

- Use with high input impedance amplifiers (i.e. J-FET and Tube)
- Very Good bandwidth (- 3 dB at 115 kHz)
- Good CMRR: >95 dB to 200 Hz
- +19.75 dB step-up; 1 : 10 turns ratio
- p.c. mount and lead packages

The CineMag CMMI-10C is designed to take a very high level mic signal before reaching saturation feeding it to a high input impedance amplifier. Having a maximum level at 20 Hz of +5 dBu, it puts out a signal of up to +24.5 dBu before reaching core saturation. It has very good bandwidth, common mode rejection ratio (CMRR), and distortion characteristics. The CMMI-10C is available with either wire leads or p.c. pins. It is encased in a μ Metal can which provides 30 dB of magnetic shielding. All the wires connecting to the internal foil shields between windings are spot welded for maximum long term reliability, as is done with all CineMag transformers.

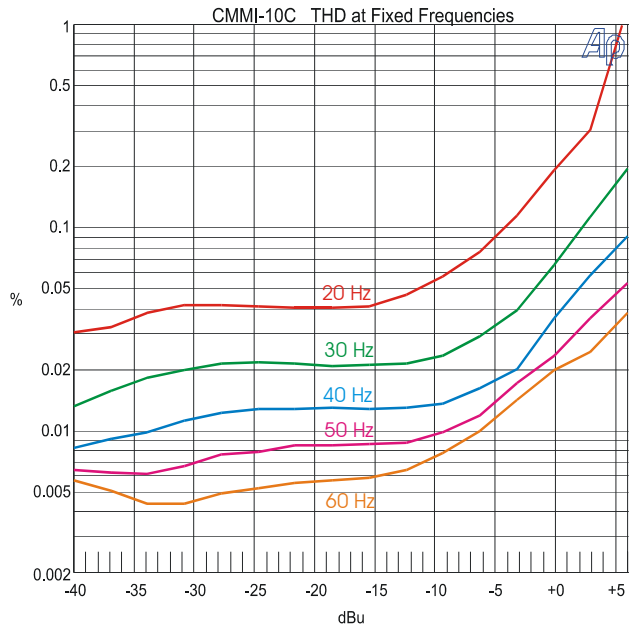
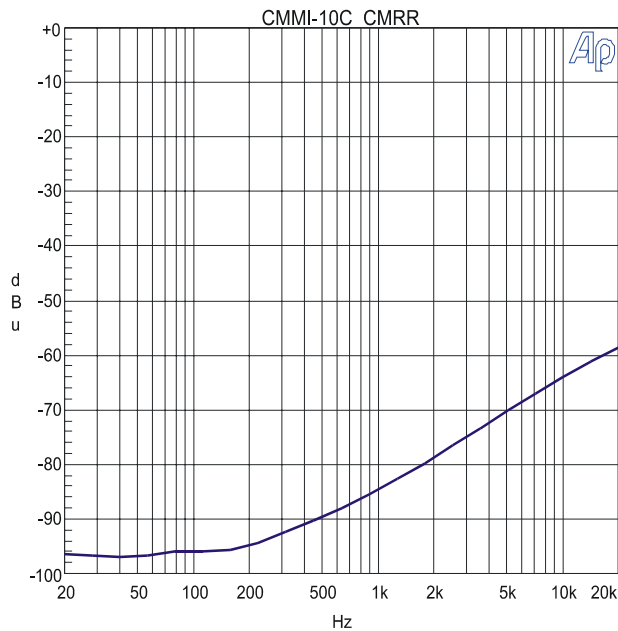
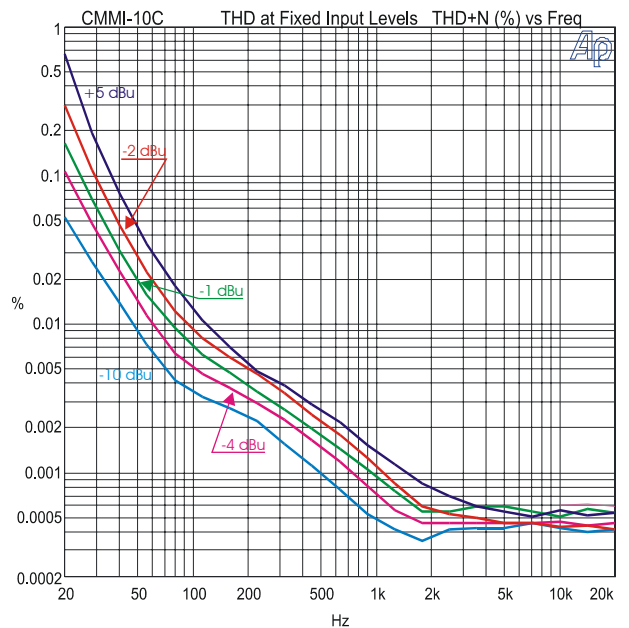
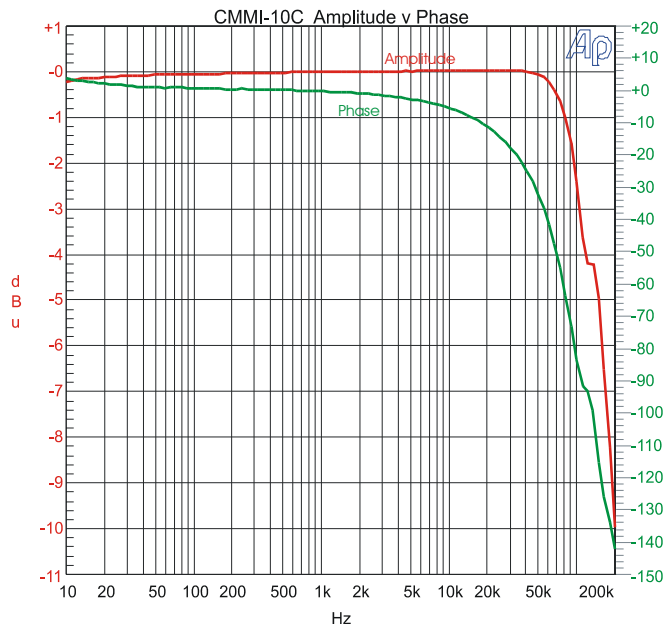
NOTE: This transformer has a high impedance secondary. Care must be exercised in the design of the amplifier that it feeds to obtain best results and to realize best bandwidth.

CMMI-10C / CMMI-10C-PC

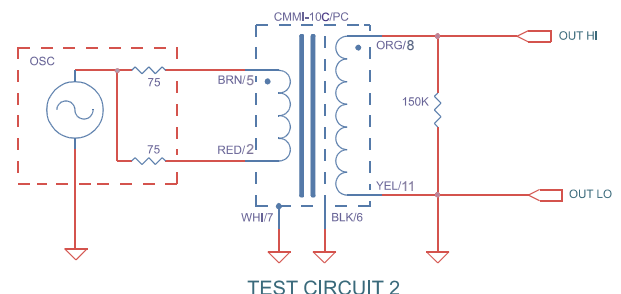
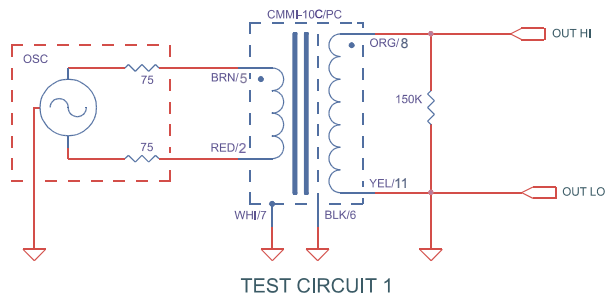
Parameter	Conditions	Typ
Turns Ratio		1 : 10.00
Voltage Gain	1 kHz, -20 dBu 150 Ω input, 150K secondary load impedance	19.75 dB
Distortion (THD+N%)	1 kHz, -11 dBu Test Circuit 1 20 Hz, -20 dBu Test Circuit 1	0.0005% 0.05%
Max 20 Hz input level	1.0% THD; 150 Ω input, 150K secondary load impedance Test Circuit 1	+5 dBu
Response, ref 1 kHz	20 Hz Test Circuit 1 20 kHz Test Circuit 1 -3 dB	-0.23 dB +0.0 dB 115 kHz
Phase Shift at 20 Hz Phase Shift at 20 kHz	Referenced to source generator Test Circuit 1	+4° -12°
CMRR	60 Hz Test Circuit 2 per IEEE Std 389-1996 ¶19 1 kHz Test Circuit 2 per IEEE Std 389-1996 ¶19	96 dB 85 dB
Operating Temp Range	Operation and storage	0° C Min 70° C Max
Max Soldering Temp (p.c.)	10 Seconds	270° C Max

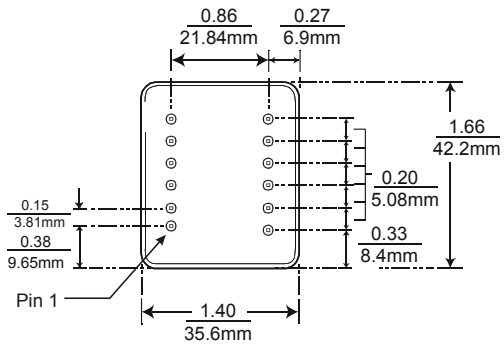
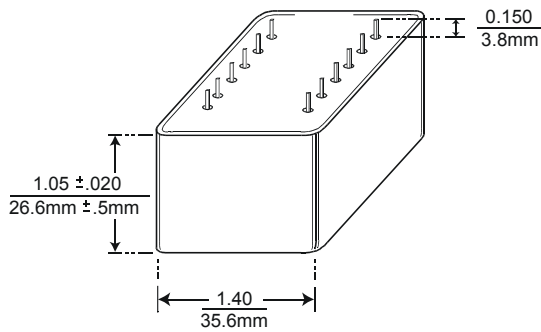
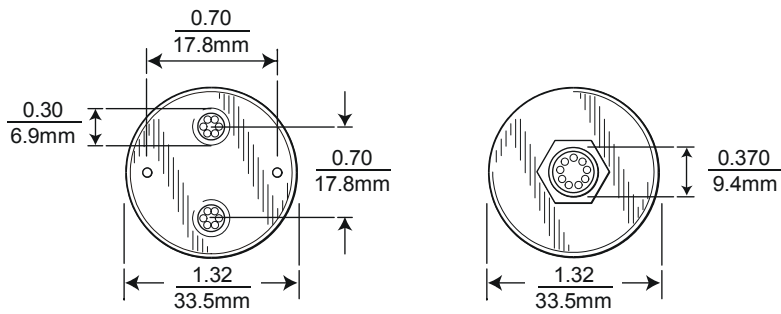
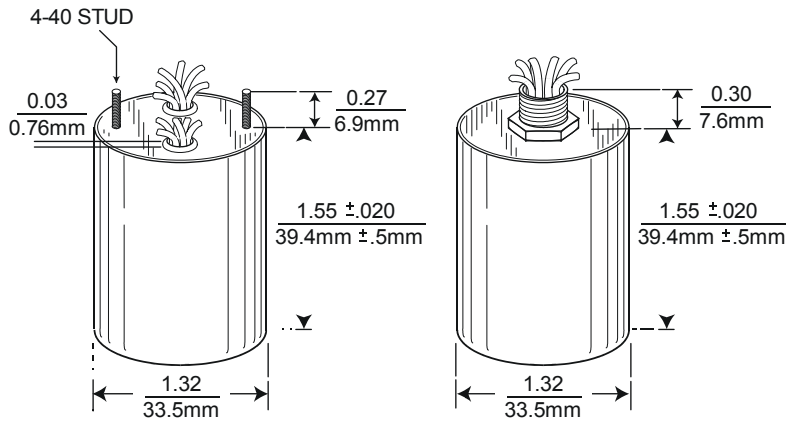
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NOTES: 1. All graphs generated from one (1) randomly chosen device. No statistical averaging or weighting. Data from one sweep.





BOTTOM VIEW