Superior Magnetics Since 1979

CMMI-3.5C

Microphone Input Transformer
150Ω to 1.84KΩ - 1 : 3.5 Step-up

- **Excellent for bipolar transistor and F.E.T. amplifiers**
- **Excellent bandwidth (+1/3 dB at 50 kHz)**
- **Good CMRR: >110 dB at 60 Hz, >90 dB at 1kHz**
- **0.055 THD at -10dB input level, 20 Hz**
- **+9.7 dB step-up**

The CineMag CMMI-3.5C microphone input transformer has a low impedance secondary making it suitable for driving most amplifiers. This transformer exhibits superior bandwidth and phase shift, excellent common mode rejection ratio (CMRR), and very good distortion characteristics. It is encased in a μMetal can which provides 30 dB of magnetic shielding. It is also available with either a threaded bushing or screw mounting studs. Printed circuit board mount package is also available. As with all CineMag transformers, the wires from the internal foil shields between windings are all spot welded for maximum long term reliability. The CMMI-3.5C is available both in p.c. mount package and with wire leads.

CMMI-3.5C / CMMI-3.5CPC

Parameter	Conditions	Typ
Turns Ratio		1 : 3.50
Voltage Gain	1 kHz, -20 dBu 150Ω input, 18K secondary load impedance	+9.73 dB
Distortion (THD+N%)	1 kHz, +8 dBu Test Circuit 1 20 Hz, -4 dBu Test Circuit 1	0.002% 0.05%
Max 20 Hz input level	1.0% THD; Test Circuit 1	+7 dB
Response, ref 1 kHz	20 Hz Rs=150 Test Circuit 1 20 kHz Rs=150 Test Circuit 1	-0.1 dB +0.05 dB
Phase Shift at 20 Hz Phase Shift at 20 kHz	Referenced to source generator Rs=150 Test Circuit 1	+2° -4°
CMRR	60 Hz Test Circuit 2 per IEEE Std 389-1996 ¶19 1 kHz Test Circuit 2 per IEEE Std 389-1996 ¶19	>110 dB 94 dB
Operating Temp Range	Operation and storage	0° C Min 70° C Max
Max Soldering Temp (p.c.)	5 Seconds	335°C Max

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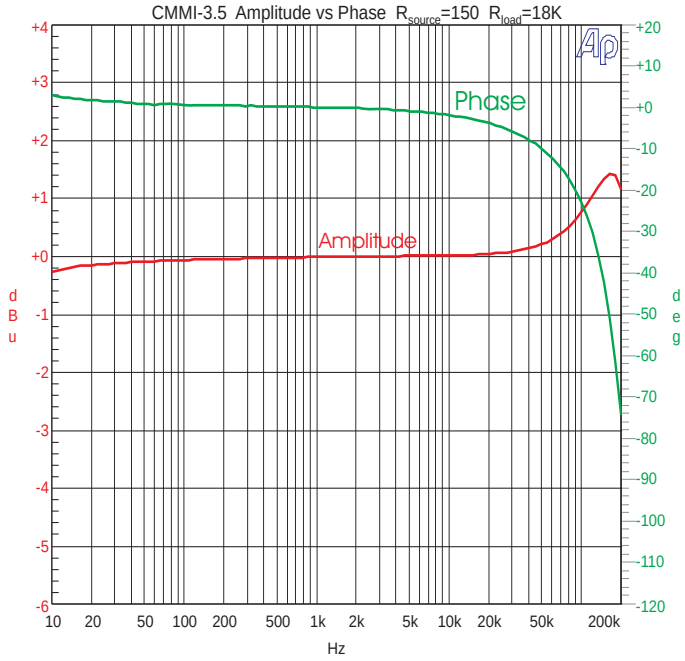
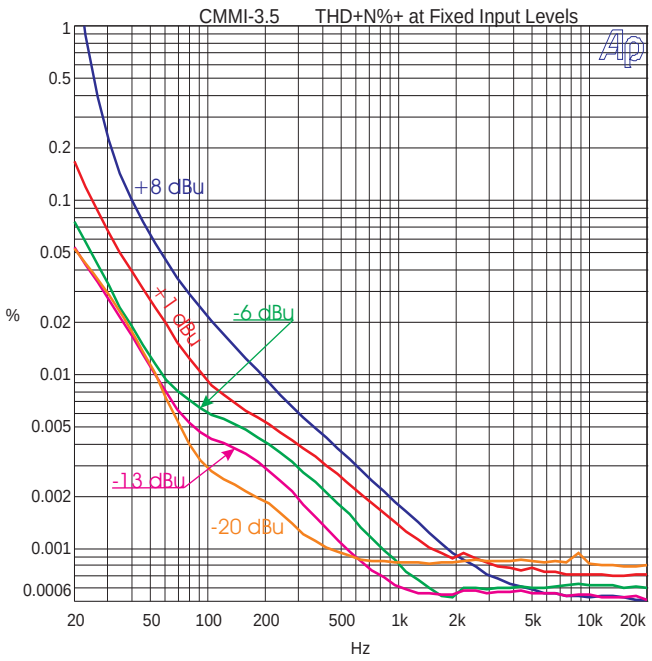
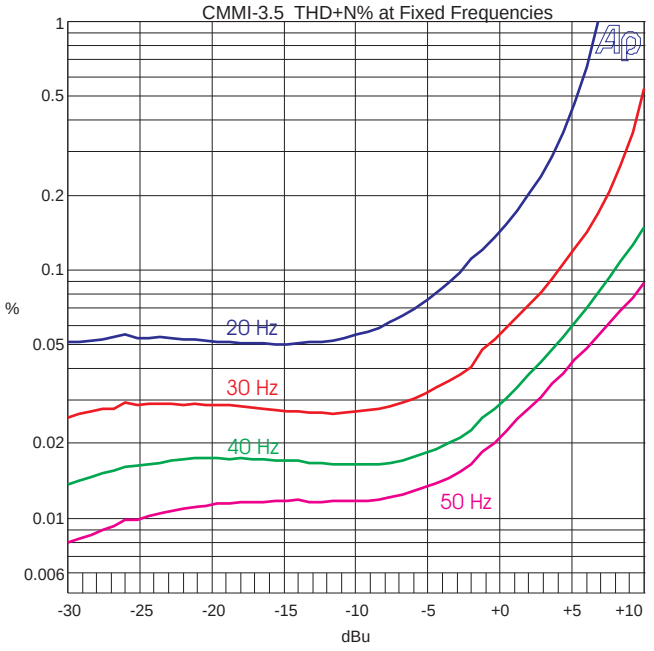
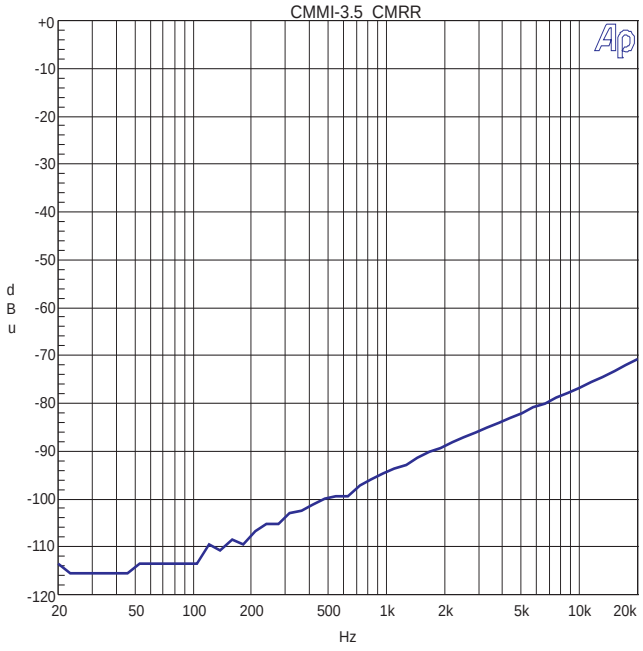
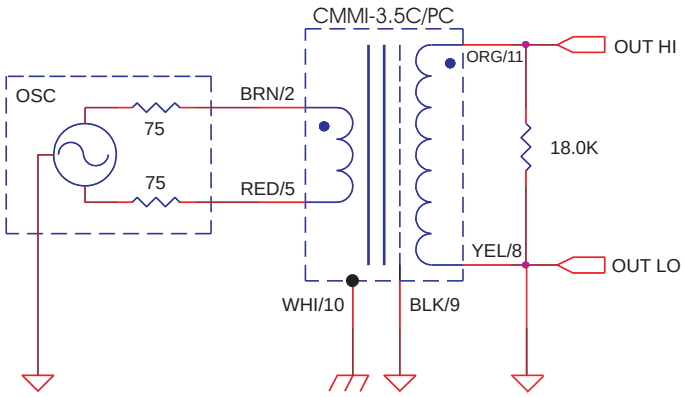


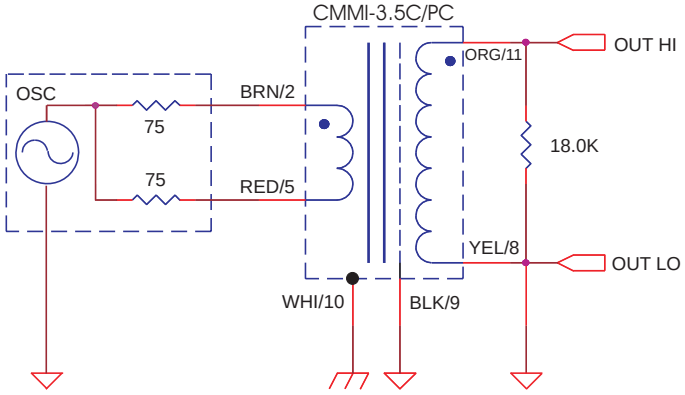




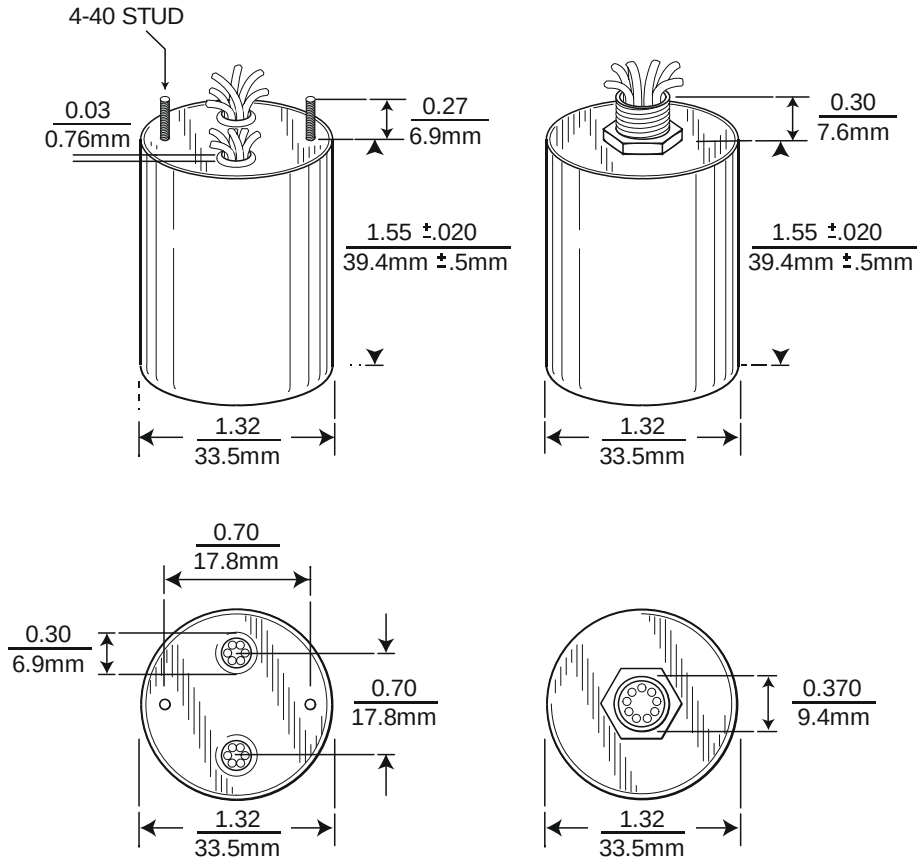




TEST CIRCUIT 1



TEST CIRCUIT 2



BOTTOM VIEW

REV B