



Reichenbach Engineering



CMMI-3.5APC

Microphone input transformer 1:3.5 turns ratio 150 : 1.8K

- Economical design for OEM applications
- Good bandwidth (+ 1/4 dB at 20 kHz)
- Very good CMRR: 110 dB at 60 Hz
- Low profile p.c. mount package

The CineMag CMMI-3.5APC is a p.c. mount microphone input transformer. It is intended for OEM products and has very good bandwidth, common mode rejection ratio (CMRR) and distortion characteristics. It is housed in a μ -metal can which provided 30dB of magnetic shielding. All internal Faraday shield foils are spot welded for maximum long term stability and CMRR.

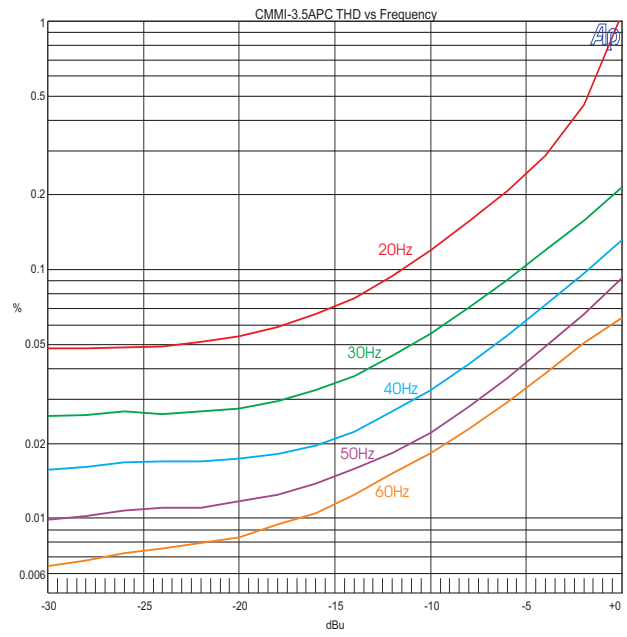
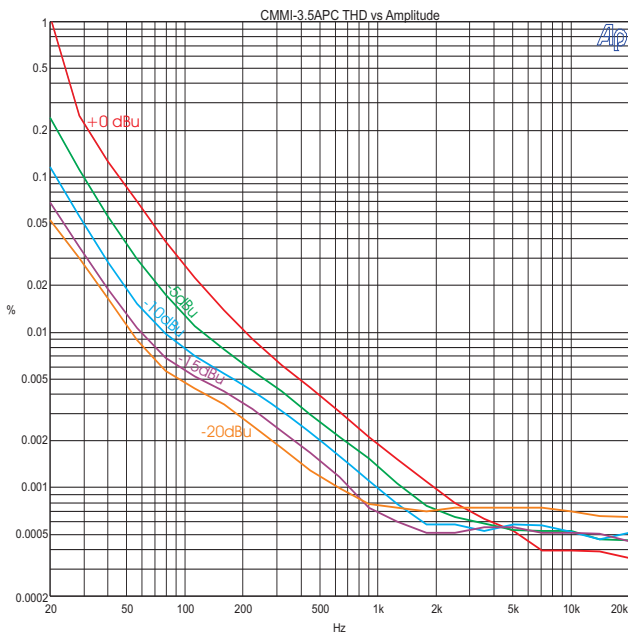
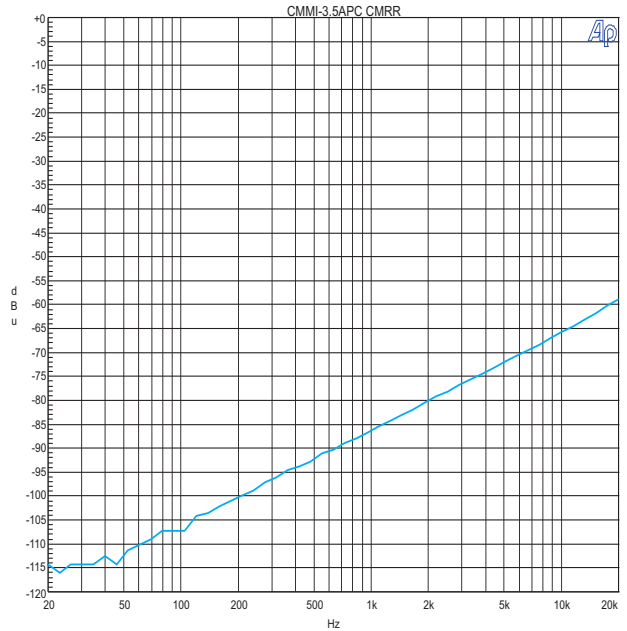
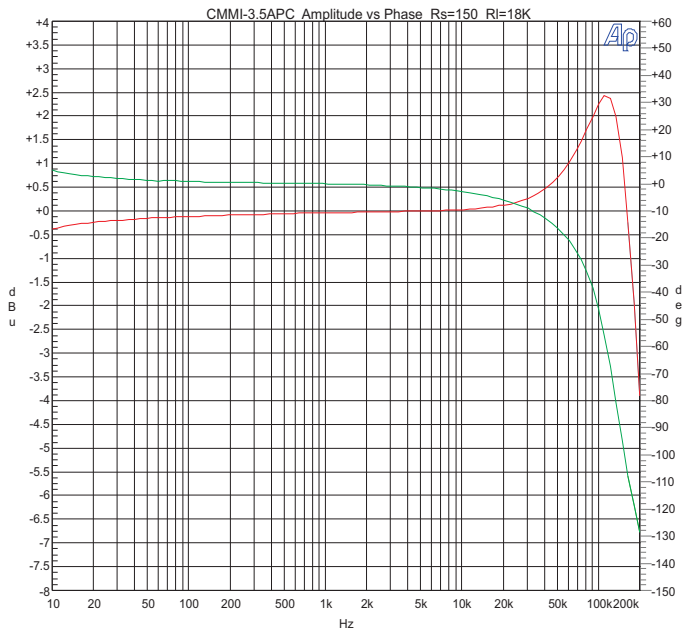
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Parameter	Conditions	Typ
Turns Ratio		1:3.5
Voltage Gain	1 kHz, Rs=150 RL=18K Test Circuit 1	+9.6 dB
Distortion (THD+N%)	1 kHz, +0 dBu Test Circuit 1 20 Hz, -20 dBu Test Circuit 1	0.002% 0.05%
Max 20 Hz input level	1.0% THD; Test Circuit 1	-0.05dBu
Response, ref 1 kHz	10 Hz Rs=150 Test Circuit 1 20 kHz Rs=150 Test Circuit 1 -3 dB	-0.04 dB +0.2 dB 180 kHz
Phase Shift at 20 Hz Phase Shift at 20 kHz	Referenced to source generator Rs=150 Test Circuit 1	+2° -5°
CMRR	60 Hz Test Circuit 3 per IEE Std 389-1996 ¶19 1 kHz Test Circuit 3 per IEE Std 389-1996 ¶19	110 dB 82 dB
Operating Temp Range	Operation and storage	0° C Min 70° C Max
Max Soldering Temp (p.c.)	5 Seconds	270° C Max

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NOTES:

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

