QUALITY MAGNETICS SINCE 1979

CM-2411

Telecommunications Line Current Sense Transformer
1 : 25

- **Line current sensing transformer**
- **Excellent Bandwidth**
- **Excellent CMRR: >95 dB at 1kHz**
- **Very good THD**
- **Hum-bucking construction**

The CineMag CM-2411 telecommunications line current sensing transformer was developed to allow precision monitoring of 600 Ohm line voltages. It has uncompromising CMRR and bandwidth. Being hum-bucking as well as being housed in a mu-metal can, it is virtually immune to stray magnetic field pickup which can compromise signal integrity. It provides precise amplitude and phase response throughout the telco bandwidth.

The CM-2411 only minimally perturbs the line being monitored when used as suggested.

Please refer to the CM-2436 which was designed along with this transformer to monitor the voltage waveform on the telecommunications line being tested.

CM-2411

Parameter	Conditions	Typ
Turns Ratio		1 : 25
Distortion (THD+N%)	1 kHz, -20 dBu Test circuit 1 RL=1.5K 50 Hz, -20 dBu Test circuit 1 RL=1.5K	0.005% 0.02%
Max 20 Hz input level	1.0% THD; Test Circuit 1 RL=1.5K	>-20 dB
Response, ref 1 kHz	20 Hz Test Circuit 1 RL=1.5K 20 kHz Test Circuit 1 RL=1.5K -3 dB	-0.1 dB +0.5 dB 70 kHz
Phase Shift at 20 Hz Phase Shift at 20 kHz	Referenced to source generator Test Circuit 1 RL=1.5K	+2° -16°
CMRR	60 Hz Test Circuit 2 per IEE Std 389-1996 ¶19 1 kHz Test Circuit 2 per IEE Std 389-1996 ¶19 Test Circuit 2	>95 dB >95 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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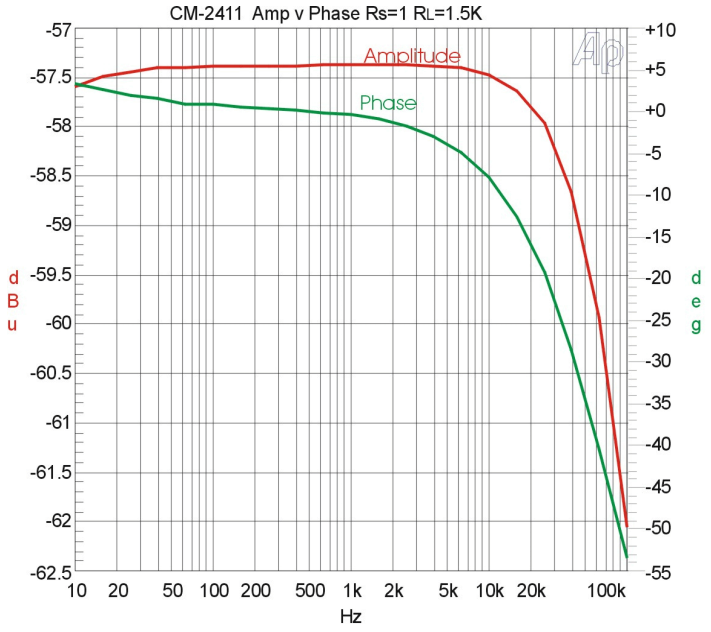
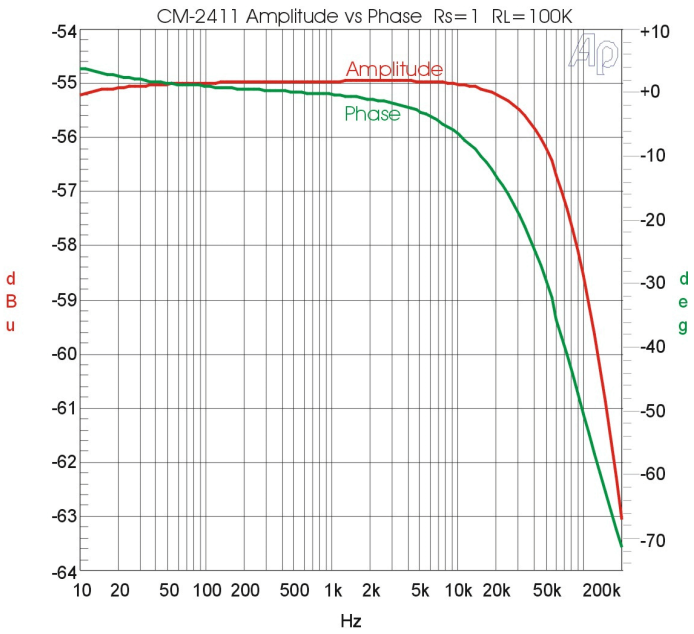
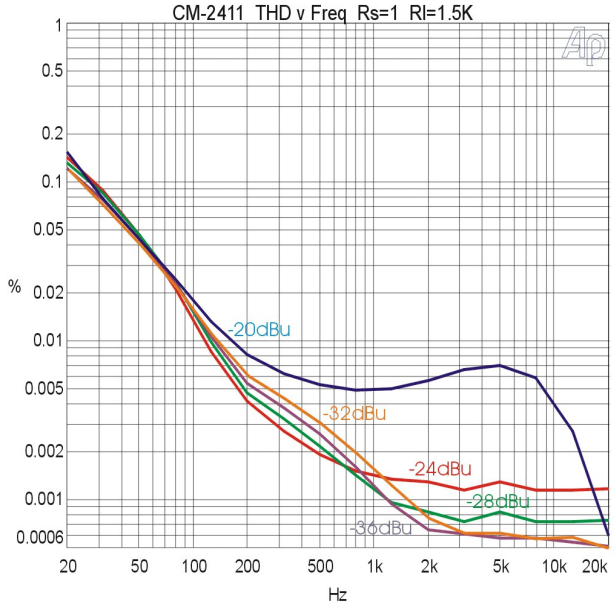
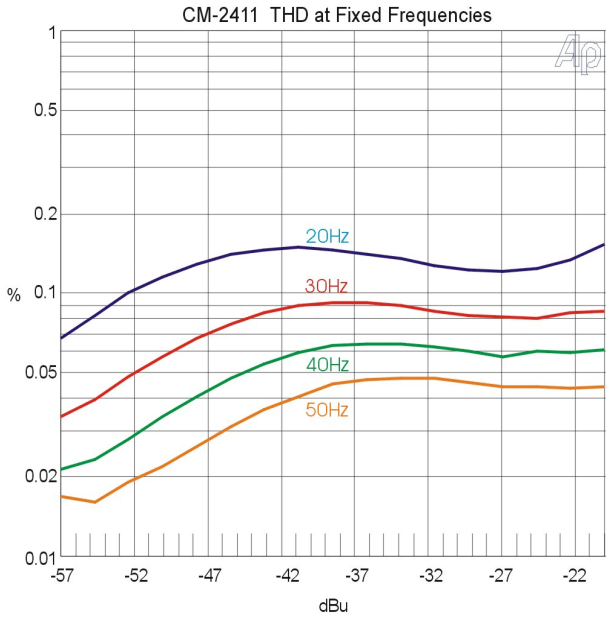
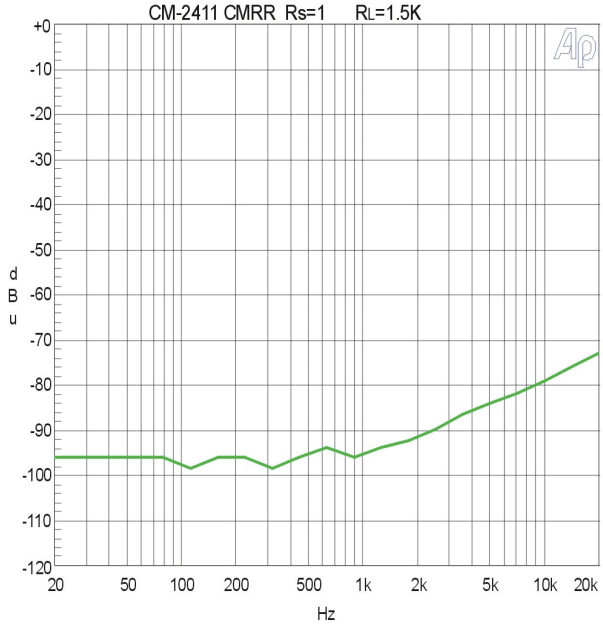


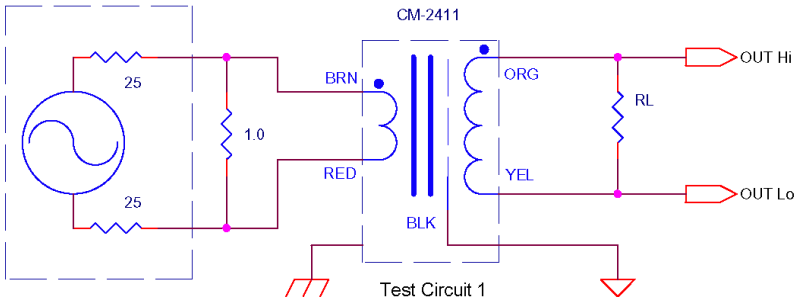




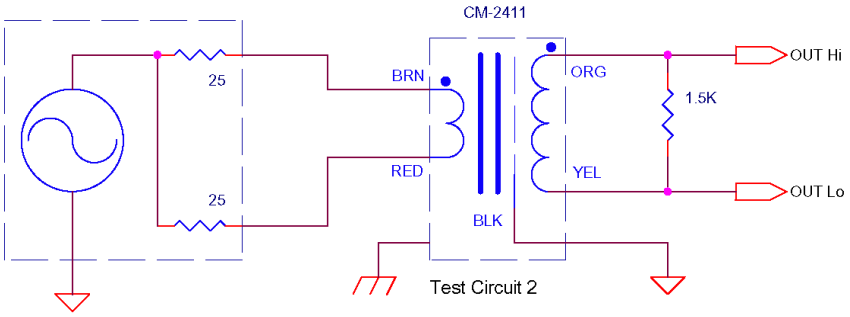




REV A



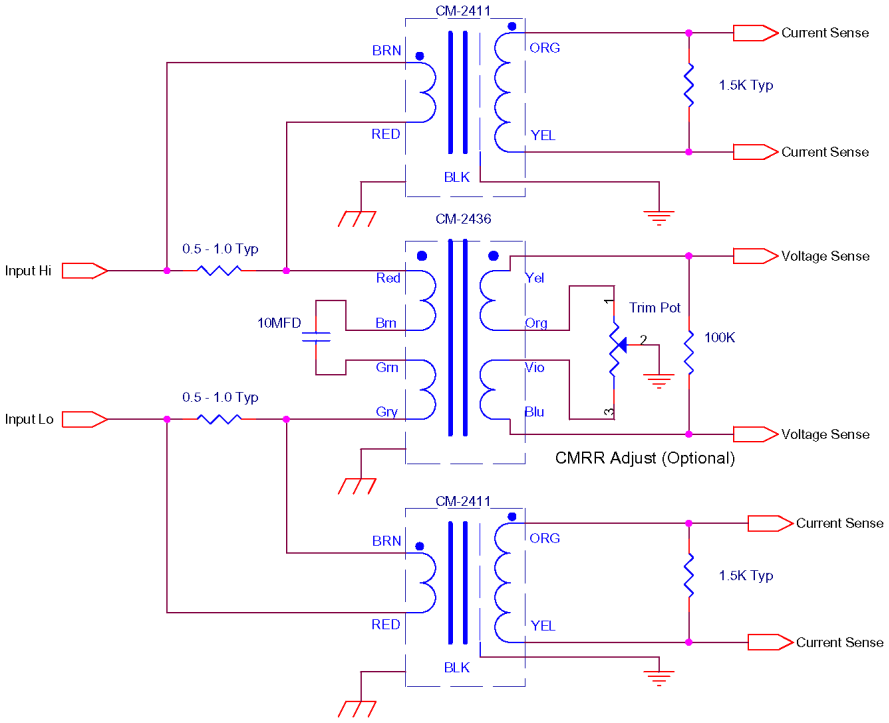
Test Circuit 1



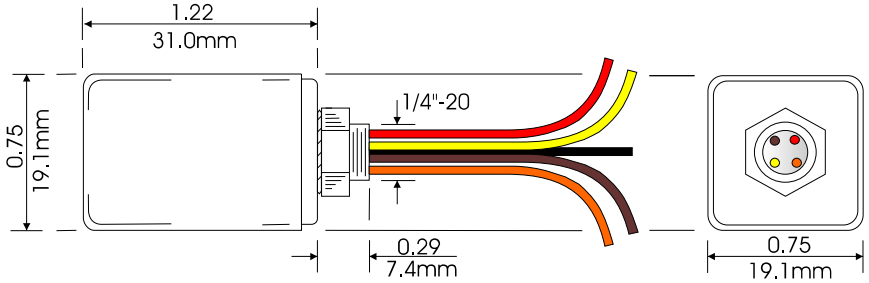
Test Circuit 2

NOTES:

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



Line Voltage & Current Monitor



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