



QUALITY MAGNETICS SINCE 1979



CM-2436

Telecommunications Line Voltage Sense Transformer 1 : 1

- Very high impedance line voltage sensing transformer
- Excellent Bandwidth +/- 0.1 dBu 20Hz - 50kHz
- Excellent CMRR: 115 dB at 1kHz
- Very good THD
- Hum-bucking construction

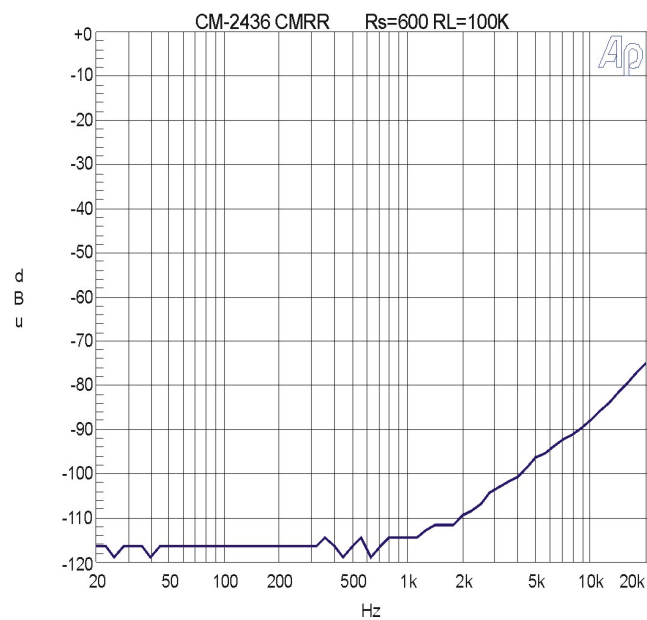
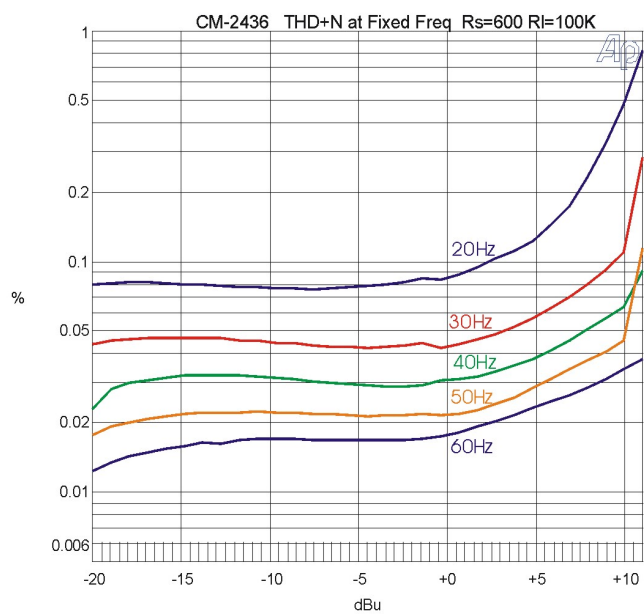
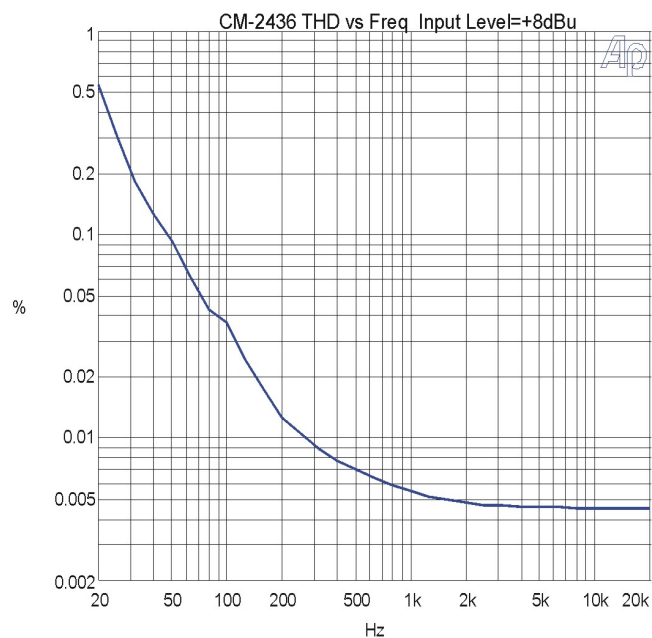
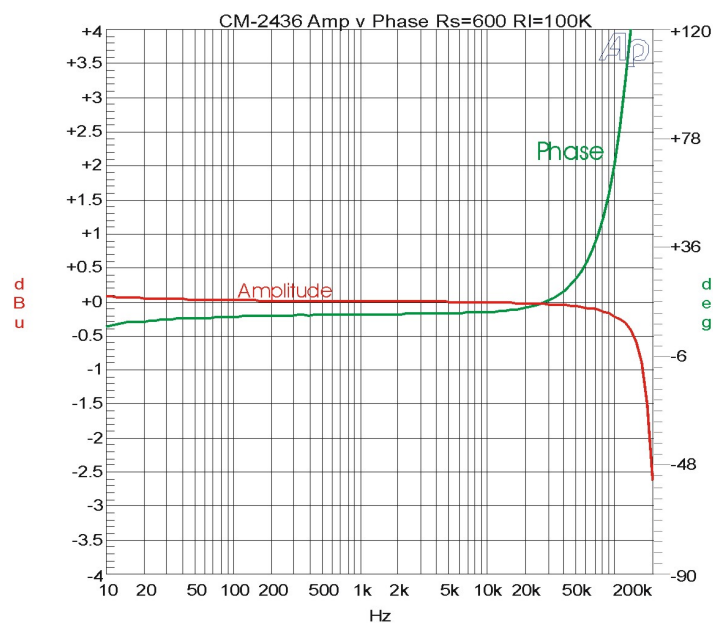
The CineMag CM-2436 telecommunications line voltage sensing transformer was developed to allow precision monitoring of 600 Ohm line voltages. It has uncompromising CMRR and bandwidth. Being hum-bucking as well as being housed in a mu-metal can, it is virtually immune to stray magnetic field pickup which can compromise signal integrity. It provides precise amplitude and phase response throughout the telco bandwidth.

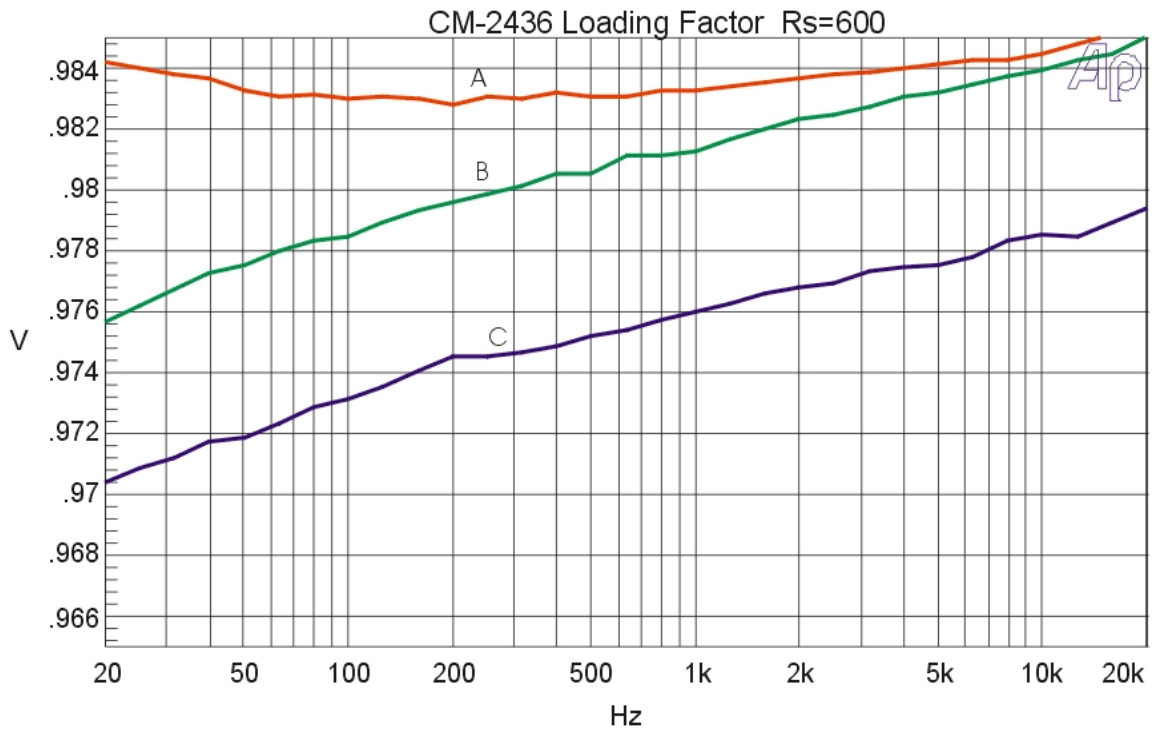
The CM-2436 only minimally perturbs the line being monitored. When used as suggested with a 100K load resistor on the secondary, the typical reflected impedance on the primary is greater than 99K.

Please refer to the CM-2411 which was designed along with this transformer to monitor the current waveform on the telecommunications line being tested.

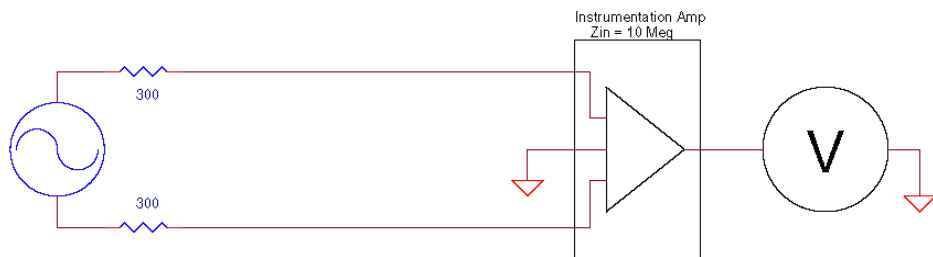
CM-2436

Parameter	Conditions	Typ
Turns Ratio		1 : 1
Voltage Gain	1 kHz, -20 dBu 150Ω input, 100K secondary load impedance	<0.007 dBu
Distortion (THD+N%)	1 kHz, +8 dBu Test circuit 1 50 Hz, +0 dBu Test circuit 1	0.006% 0.025%
Max 20 Hz input level	1.0% THD; Test Circuit 1	+12 dB
Response, ref 1 kHz	20 Hz Test Circuit 1 20 kHz Test Circuit 1 -3 dB	-0.5 dB +0.01 dB >200 kHz
Phase Shift at 20 Hz Phase Shift at 20 kHz	Referenced to source generator Test Circuit 1	-0.03° -0.01°
CMRR	60 Hz Test Circuit 2 per IEE Std 389-1996 ¶19 1 kHz Test Circuit 2 per IEE Std 389-1996 ¶19	>115 dB >115 dB
Operating Temp Range	Operation and storage	0° C Min 70° C Max
Max Soldering Temp (p.c.)	5 Seconds	270° C Max

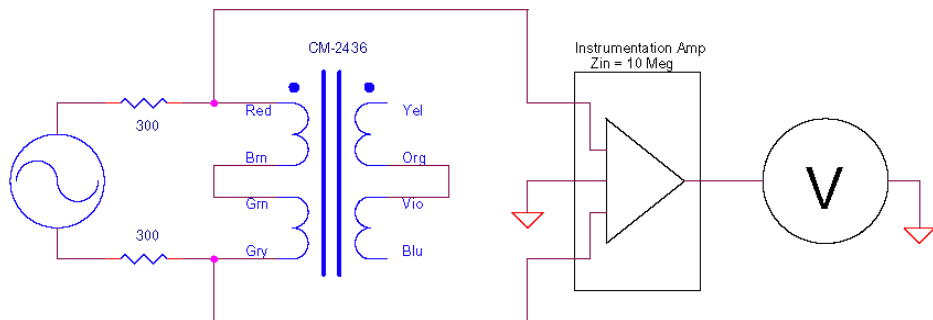




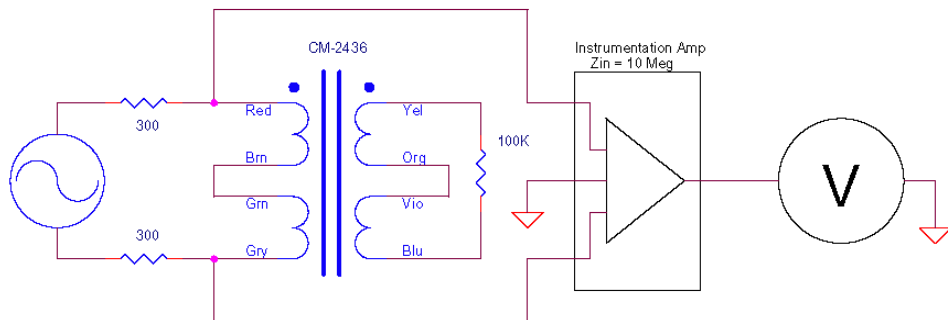
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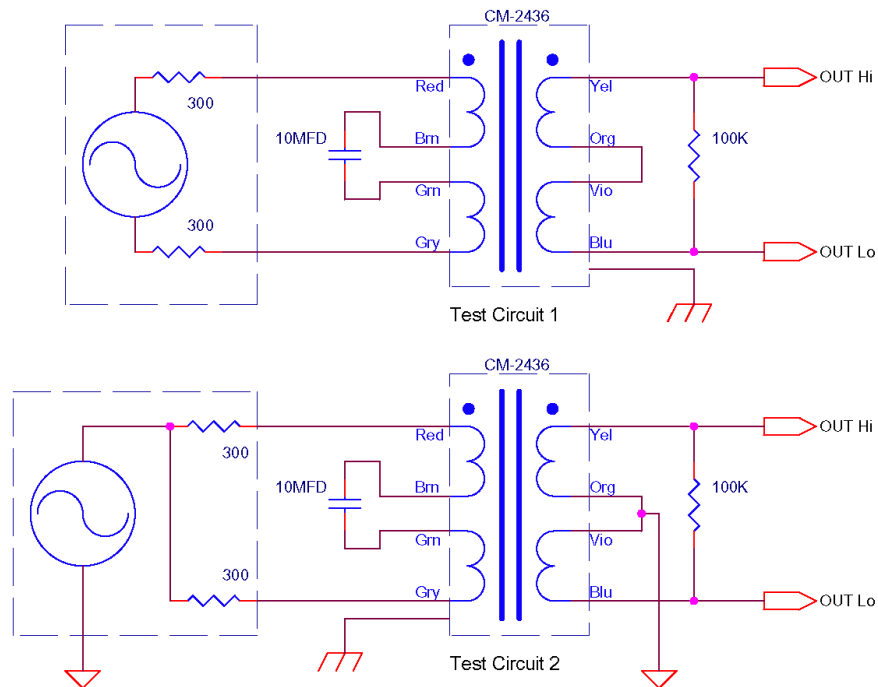


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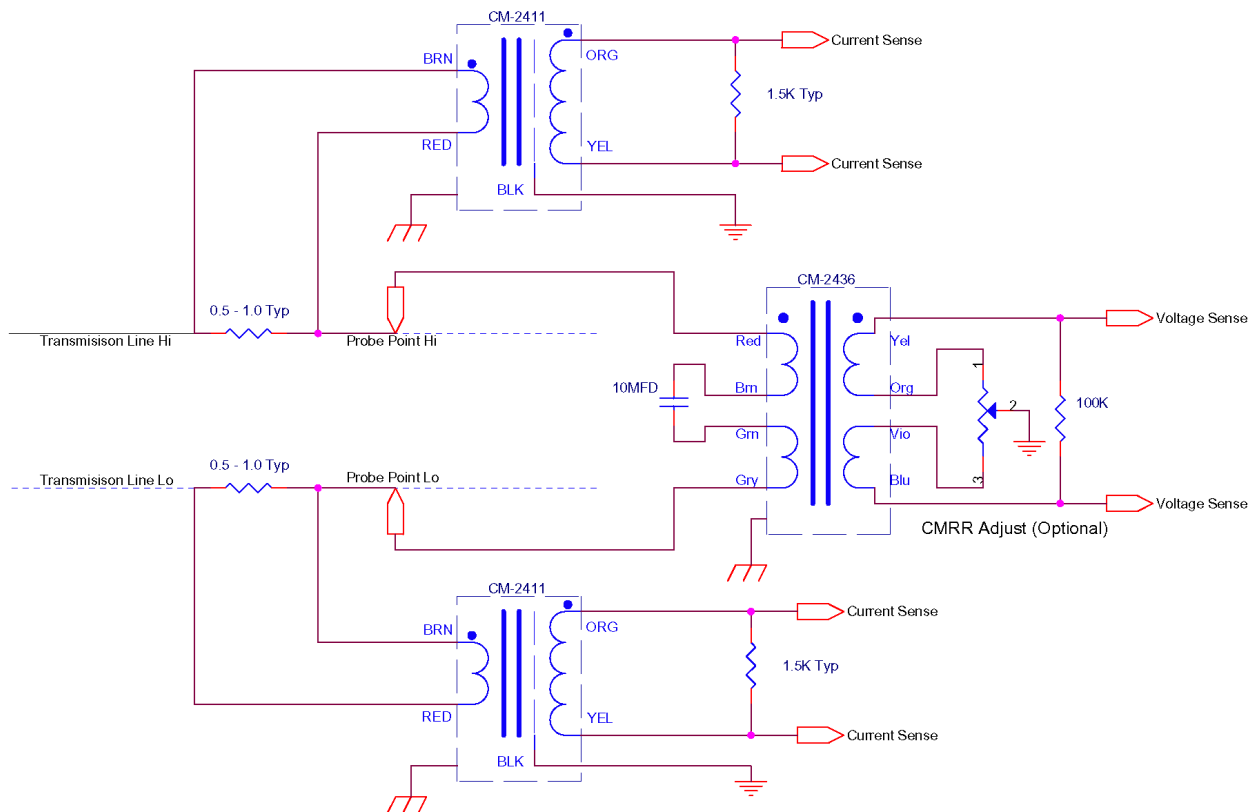
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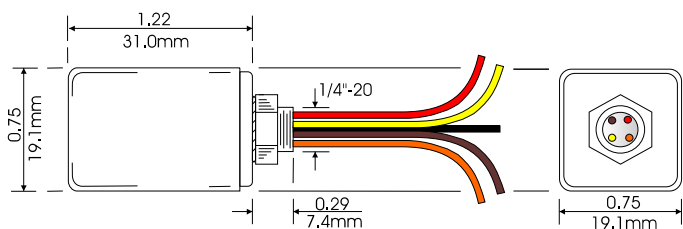


NOTES:

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



Voltage & Current Monitor



REV A

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