QUALITY MAGNETICS SINCE 1979

CM-2591

Consumer Electronics Level Splitter/Combiner with Mic Out
1 : 1 : 1 : -41.5dBu

- **Line Splitter/Combiner with center tapped mic output**
- **Excellent Bandwidth**
- **Excellent CMRR: Line >90dB @ 1kHz Mic >110dB @ 1kHz**
- **Very Good THD**
- **PC Mounting**

The CineMag CM-2591 line splitter/combiner with microphone level output transformer provides not only the capability to split or combine consumer audio level line signals but it also has a separate microphone level output with a center tap. It has very good CMRR and excellent bandwidth. Because of the large step-down turns ratio for the microphone output, the mic output source impedance is extremely low.

The CM-2591 is available standard as the CM-2591H with a high nickel core. Other core materials are available upon special request, being “low nickel” with 50% high nickel and 50% steel, and 100% steel.

CM-2591H

Parameter	Conditions	Typ
Turns Ratio		1 : 1 : 1 : 1/232
Distortion (THD+N%)	+12dBu Line Test circuit 1 RL=600 +12dBu Mic Test circuit 1 RL=150	<0.001% < 0.02%
Max 20 Hz input level	1.0% THD; Test Circuit 1 RL=600	+14 dBu
Response, ref 1 kHz	20 Hz Line Test Circuit 1 RL=600 20 kHz Line Test Circuit 1 RL=600 20Hz Mic Test Circuit 2 RL=150 20kHz Mic Test Circuit 2 RL=150 -3 dB	-0.02 dB -0.02 dB -0.1 dB -0.02 dB
Phase Shift at 20 Hz Phase Shift at 20 kHz	Line Test Circuit 1 RL=600 Line Test Circuit 1 RL=600 Mic Test Circuit 2 RL=150 Mic Test Circuit 2 RL=150	+2° +1° +2° -1°
CMRR Line Mic	60 Hz Test Circuit 3 per IEE Std 389-1996 ¶19 1 kHz Test Circuit 3 per IEE Std 389-1996 ¶19 60 Hz Test Circuit 4 per IEE Std 389-1996 ¶19 1 kHz Test Circuit 4 per IEE Std 389-1996 ¶19	>90 dB >90 dB >150 dB >110 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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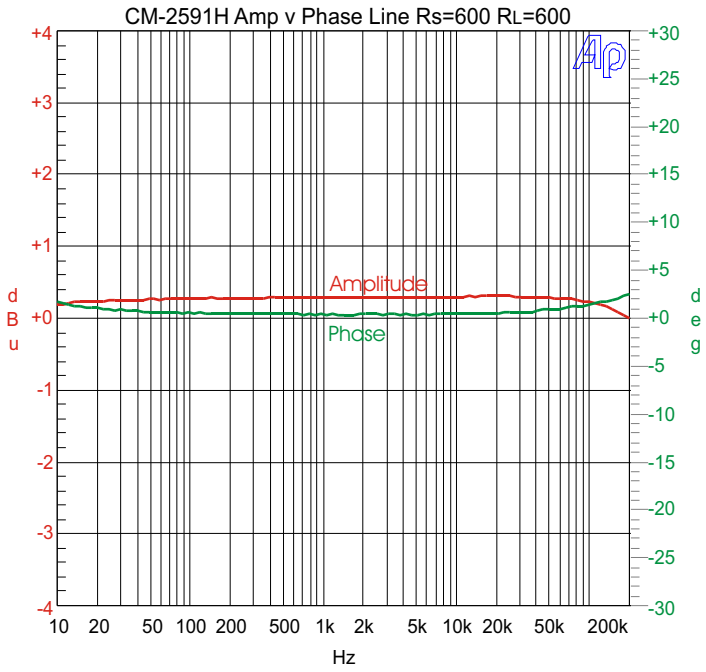
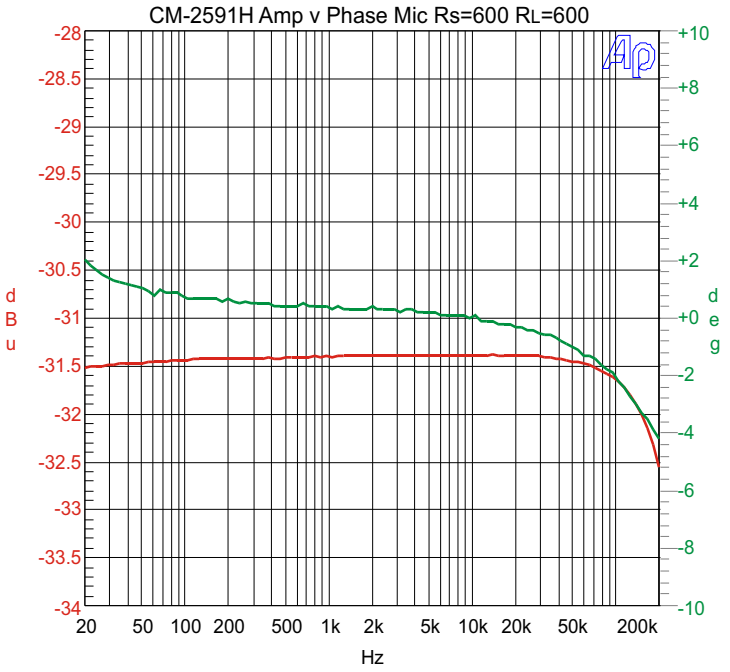
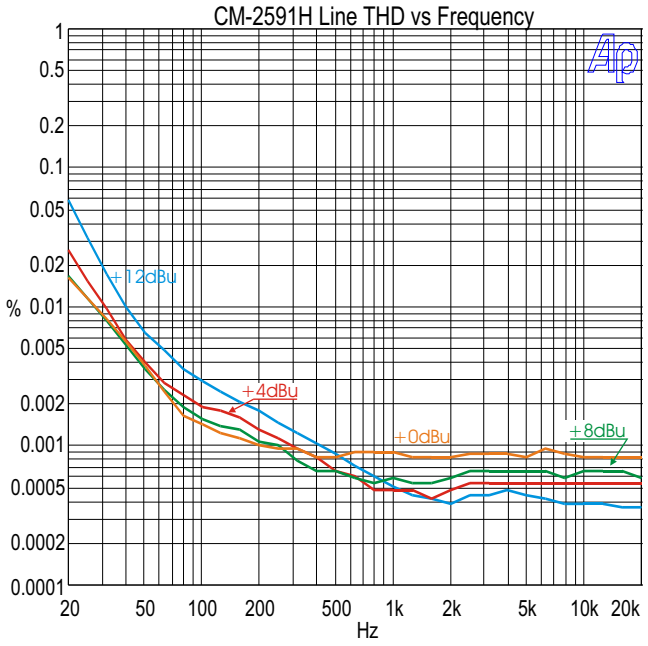
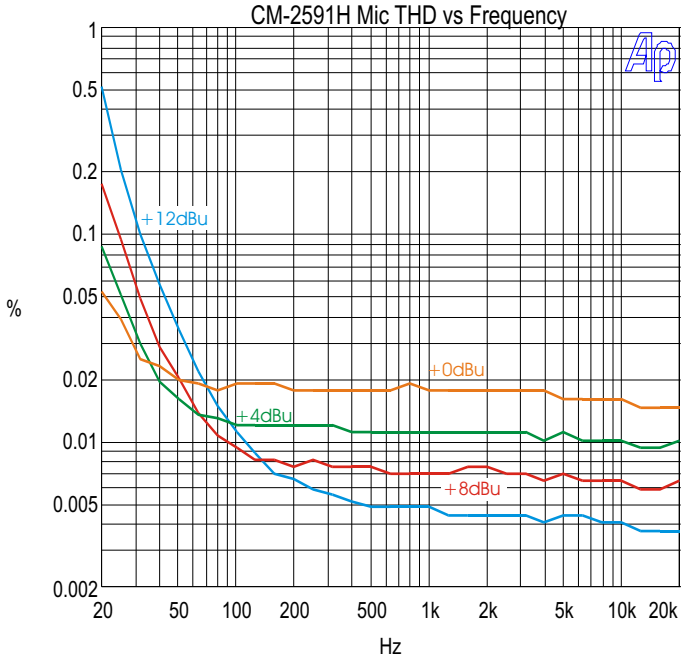
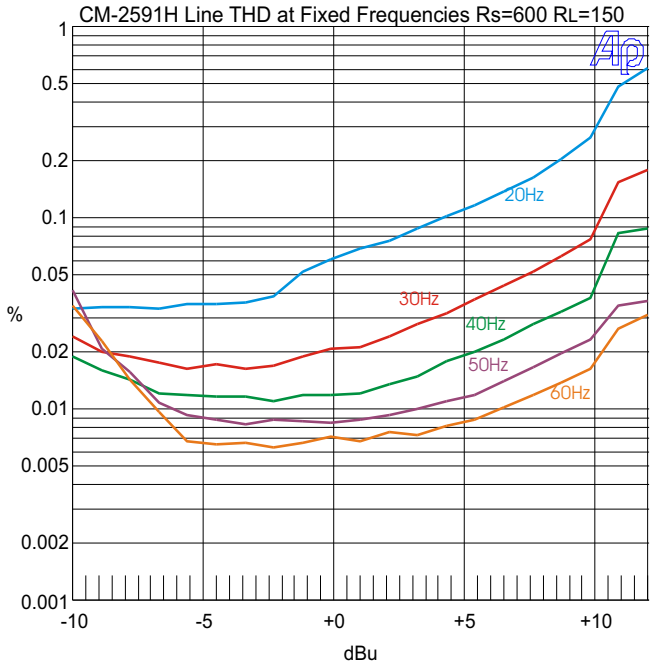
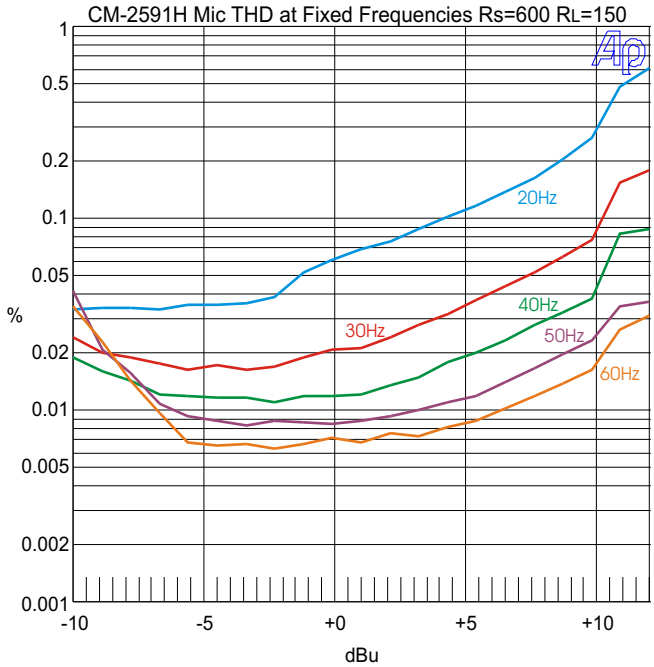

CM-2591H Amp v Phase Line Rs=600 RL=600
Amplitude
Phase
dBu
deg
Hz

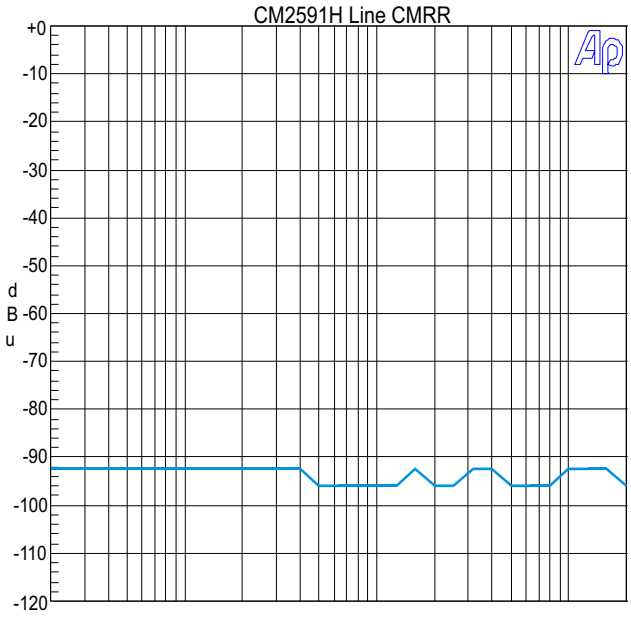

CM-2591H Amp v Phase Mic Rs=600 RL=600
dBu
deg
Hz

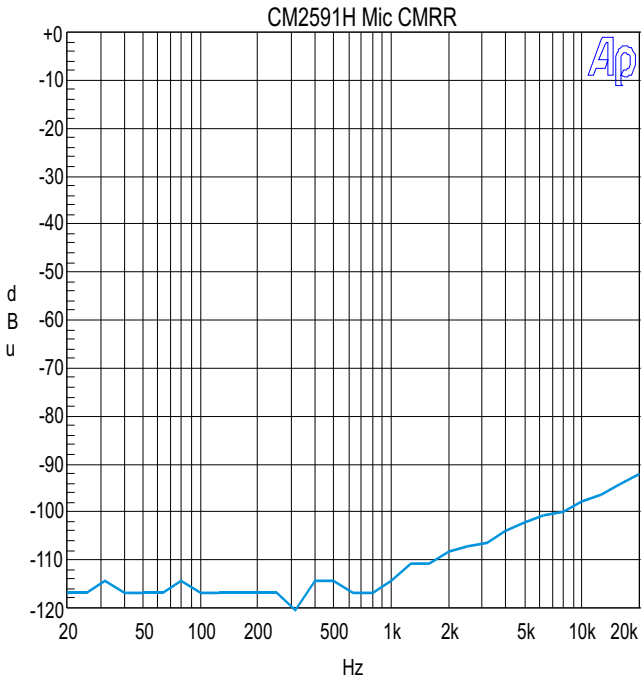

CM-2591H Line THD vs Frequency
+12dBu
+4dBu
+0dBu
+8dBu
%
Hz

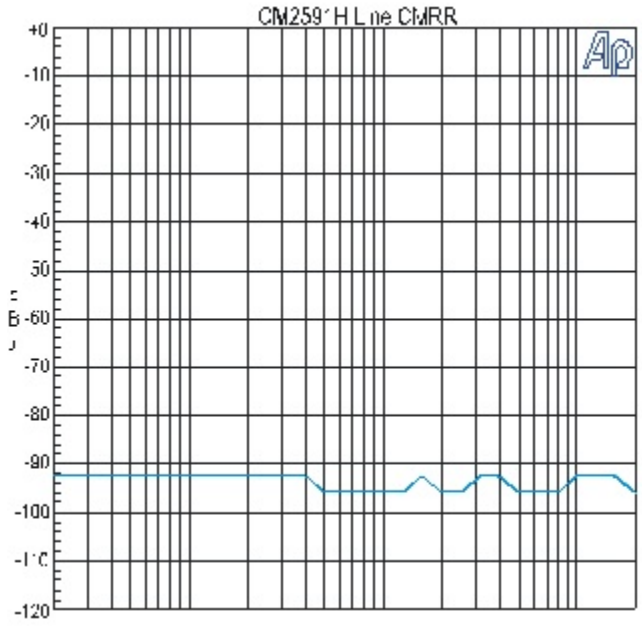

CM-2591H Mic THD vs Frequency
+12dBu
+0dBu
+4dBu
+8dBu
%
Hz

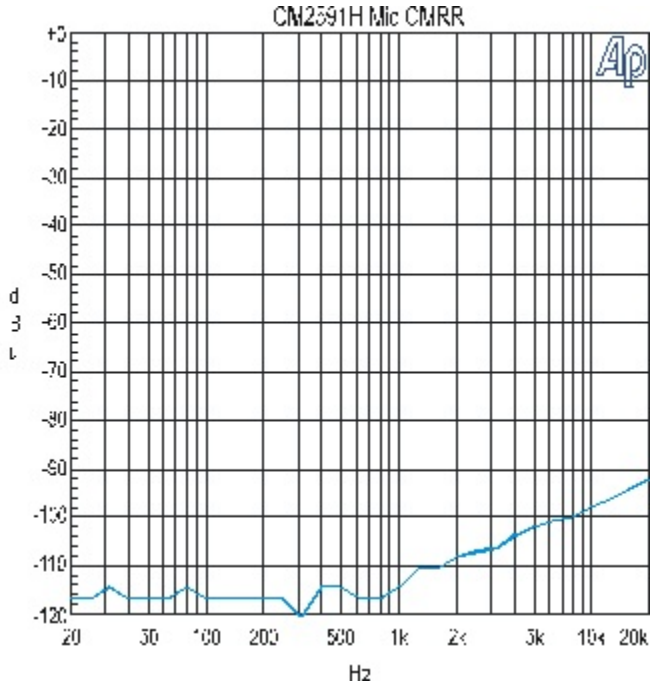

CM-2591H Line THD at Fixed Frequencies Rs=600 RL=150
20Hz
30Hz
40Hz
50Hz
60Hz
%
dBu


CM-2591H Mic THD at Fixed Frequencies Rs=600 RL=150
20Hz
30Hz
40Hz
50Hz
60Hz
%
dBu


CM2591H Line CMRR
+0
-10
-20
-30
-40
-50
-60
-70
-80
-90
-100
-110
-120
dBu

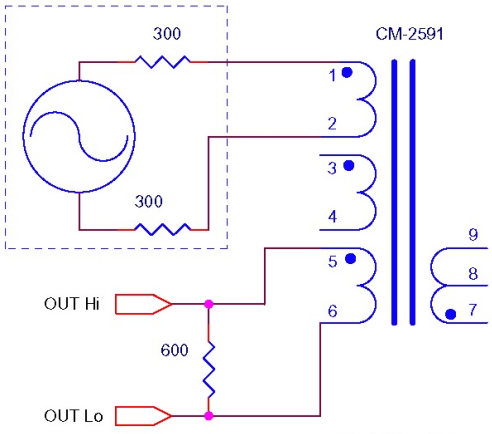

CM2591H Mic CMRR
+0
-10
-20
-30
-40
-50
-60
-70
-80
-90
-100
-110
-120
dBu
20
50
100
200
500
1k
2k
5k
10k
20k
Hz



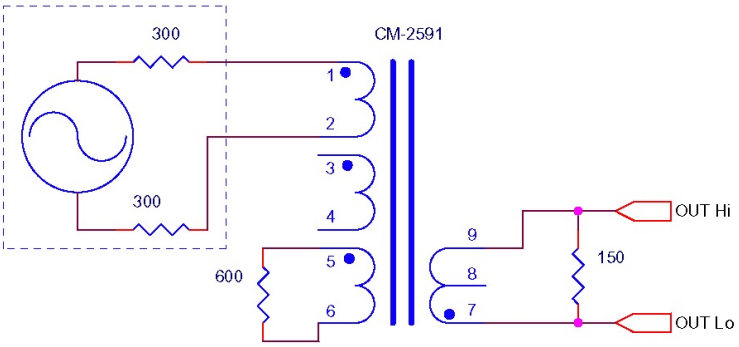


NOTES:

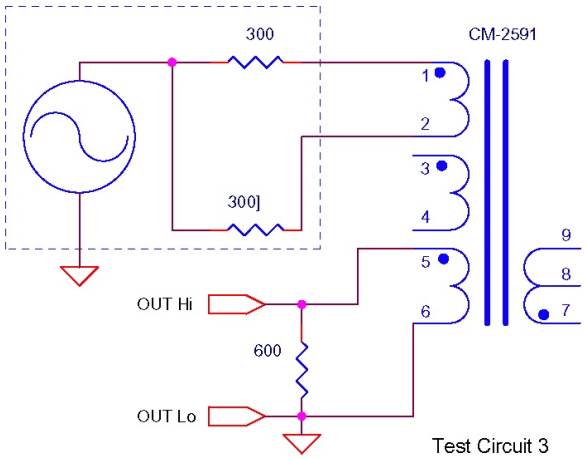
1. All graphs generated from one (1) randomly chosen device. No statistical averaging or weighting. Data from one sweep.



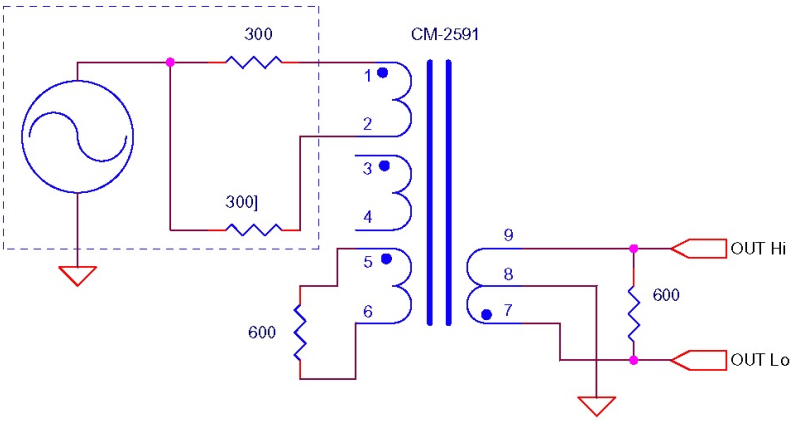
Test Circuit 1



Test Circuit 2

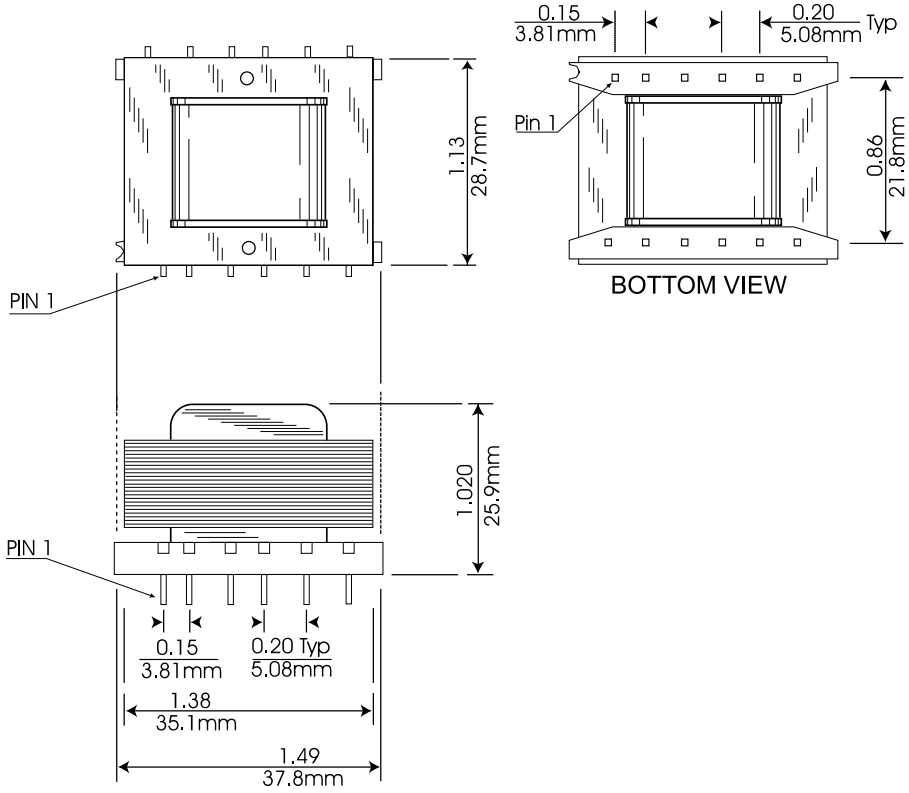


Test Circuit 3



Test Circuit 4

REV A



REV A