Reichenbach Engineering

CM-18313

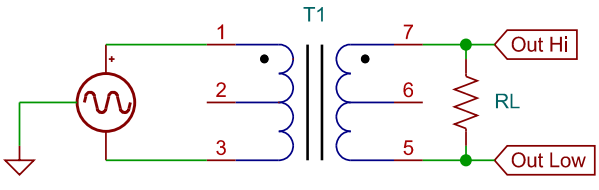
Line Output Transformer
1CT:1CT

- Printed circuit pins only
- Compact size. Bifilar wound for best bandwidth
- Moderate level handling capability driving 10K loads

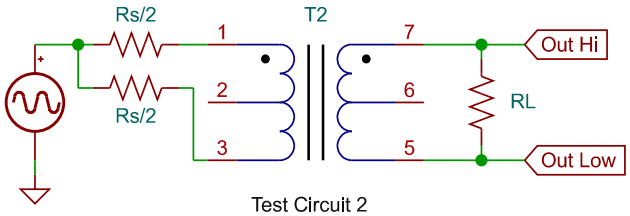
The CM-18313 is commonly used in commercial grade applications where driving a relatively high impedance is desired. It exhibits excellent bandwidth. Inclusion of nickel in the lamination stack is available. Consult with factory for recommendations. The CM18313 is only available with printed circuit pins.

CM-18313

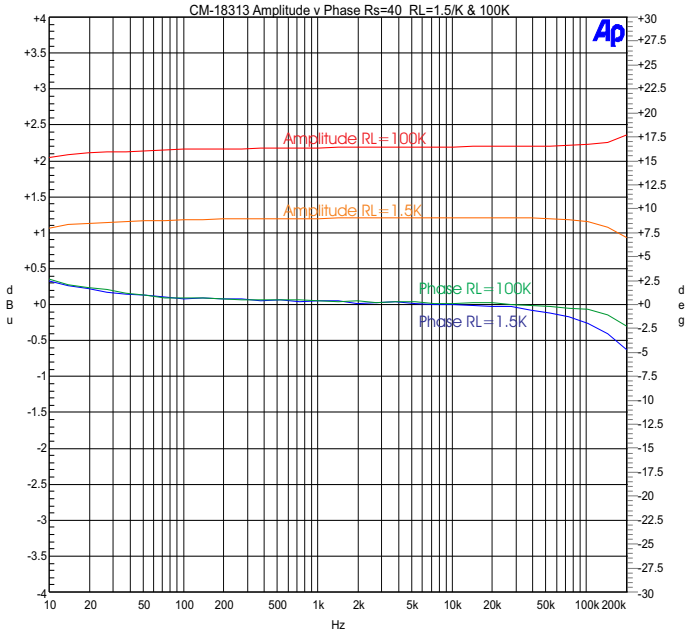
Parameter	Conditions	Typ
Turns Ratio		1CT : 1CT
Voltage Gain	1 kHz, -20 dBu 150Ω input, 39.2K secondary load impedance	0 dB
Distortion (THD+N%)	1 kHz, +0.0 dBu Test Circuit 1 20 Hz, +1.0 dBu Test Circuit 1	0.002% 0.18%
Max 20 Hz input level	1.0% THD; 150 Ω input, 39.2K secondary load impedance Test Circuit 1	+24 dBu
Response, ref 1 kHz	20 Hz +0 dBu Test Circuit 1 20 kHz +20 dBu Test Circuit 1 -3 dB	-0.1 dB +0.0 dB <200 kHz
Phase Shift at 20 Hz Phase Shift at 20 kHz	Referenced to source generator Test Circuit 1	+2° -0.1°
CMRR	60 Hz Test Circuit 2 per IEE Std 389-1996 ¶19 1 kHz Test Circuit 2 per IEE Std 389-1996 ¶19	100 dB 10 dB
Operating Temp Range	Operation and storage	0° C Min 70° C Max
Max Soldering Temp (p.c.)	10 Seconds	270°C Max

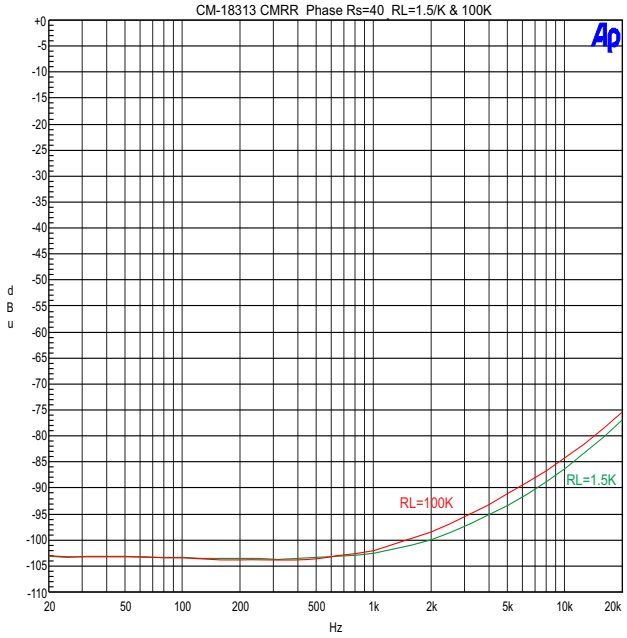


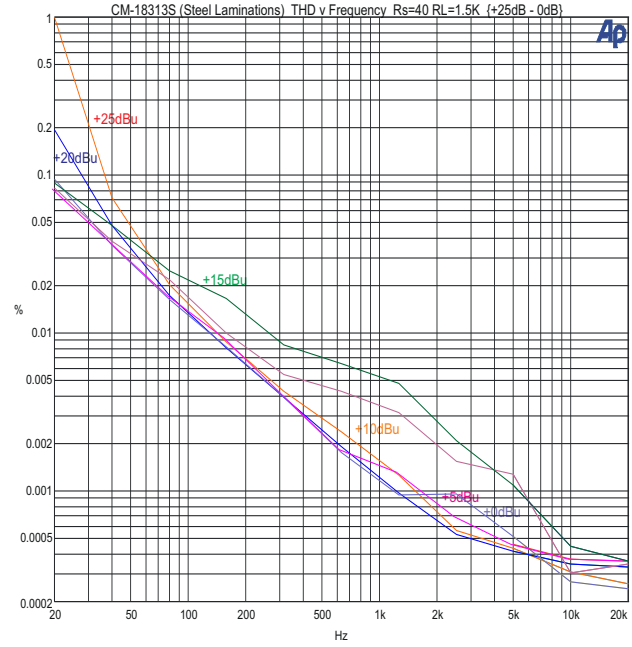
Test Circuit 1

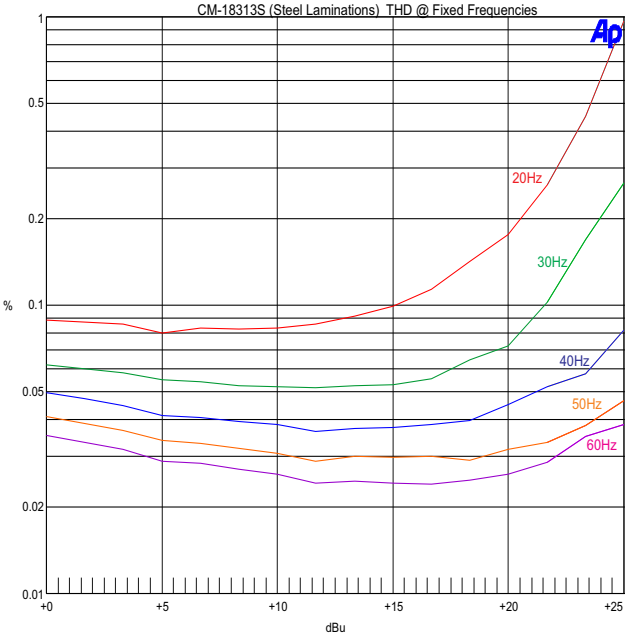


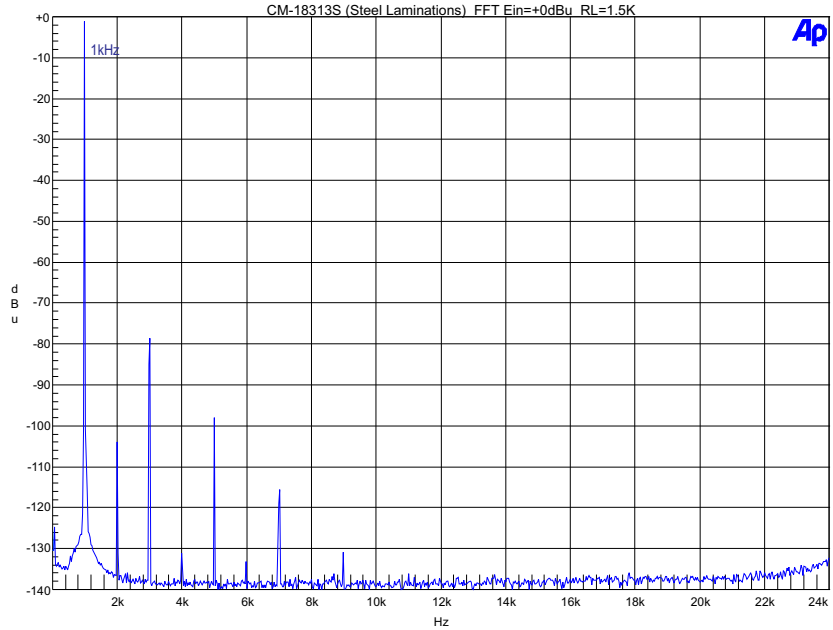
Test Circuit 2


CM-18313 Amplitude v Phase Rs=40 RL=1.5/K & 100K
Amplitude RL=100K
Amplitude RL=1.5K
Phase RL=100K
Phase RL=1.5K
dBu
deg
Hz

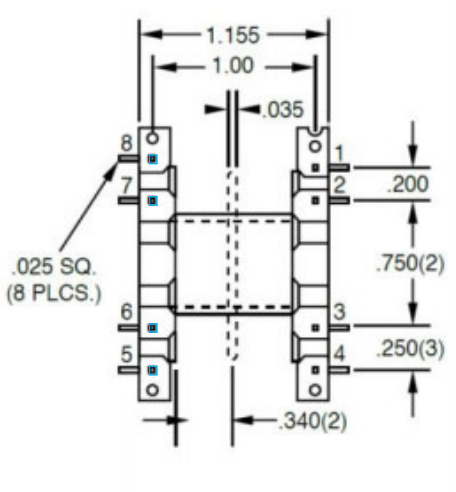

CM-18313 CMRR Phase Rs=40 RL=1.5/K & 100K
RL=100K
RL=1.5K
dBu
Hz

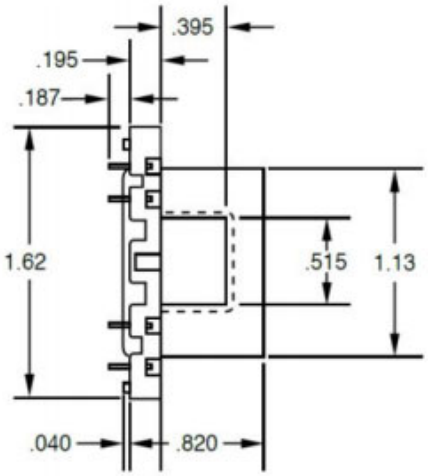

CM-18313S (Steel Laminations) THD v Frequency Rs=40 RL=1.5K {+25dB - 0dB}
+25dBu
+20dBu
+15dBu
+10dBu
+5dBu
+0dBu
%
Hz


CM-18313S (Steel Laminations) THD @ Fixed Frequencies
20Hz
30Hz
40Hz
50Hz
60Hz
%
dBu


CM-18313S (Steel Laminations) FFT Ein=+0dBu RL=1.5K
1kHz
dBu
Hz


CM-18313


1.155
1.00
.035
8
7
6
5
1
2
3
4
.200
.750(2)
.250(3)
.025 SQ.
(8 PLCS.)
.340(2)


.395
.195
.187
1.62
.515
1.13
.040
.820