QUALITY MAGNETICS SINCE 1979

CM-9711

Microphone Output Transformer
5 : 1 Turns Ratio

- Excellent bandwidth
- Center-tapped secondary
- Good distortion
- Excellent CMRR
- Small size

The CM-9711 microphone output transformer has excellent bandwidth and good distortion characteristics. It features small size, being an un-cased transformer. It is designed for use with moderate impedance vacuum tube circuits. It employs a hum-bucking design giving it the capability of rejecting stray magnetic interference. It also has excellent CMRR.

CM-9711

Parameter	Conditions	Typ
Turns Ratio		5.0 : 1
Voltage Gain	1kHz Rs=600 RL=1.5K 1kHz Rs=10K RL=1.5K 1kHz Rs=20K RL=1.5K	-14.7dBu -17.2dBu -19.1dBu
Distortion (THD+N%)	1 kHz, +24.0 dBu Rs=10K RL=1.5K 20 Hz, +10.0 dBu Test Circuit 1	0.015% 0.055%
Max 20 Hz input level	1.0% THD Rs=10K RL=1.5K Test Circuit 1	+13 dBu
Response, ref 1 kHz	10 Hz Rs=600 RL=1.5K Test Circuit 1 20 kHz Rs=600 RL=1.5K Test Circuit 1 200kHz Rs=600 RL=1.5K 10Hz Rs=10K RL=1.5K 20kHz Rs=10K RL=1.5K 150kHz Rs=10K RL=1.5K	-0.15 dB ±0.05 dB +0.2dBu -0.6dBu +0.1dBu -1dBu
Phase Shift at 20 Hz Phase Shift at 20 kHz	Referenced to source generator Rs=10K RL=1.5K Test Circuit 1	+6° -5°
CMRR	60 Hz Test Circuit 2 per IEE Std 389-1996 ¶19 1 kHz Test Circuit 2 per IEE Std 389-1996 ¶19 Rs=20K RL=1.5K	120 dB 107dB
Operating Temp Range	Operation and storage	0° C Min 70° C Max

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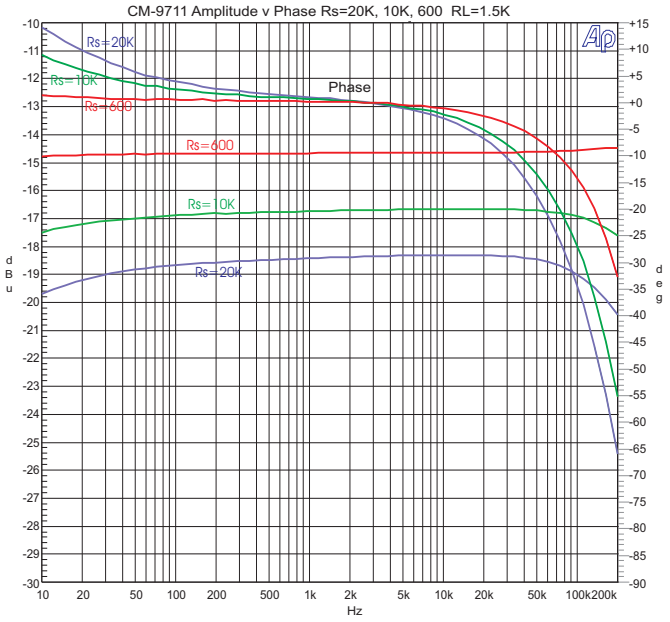
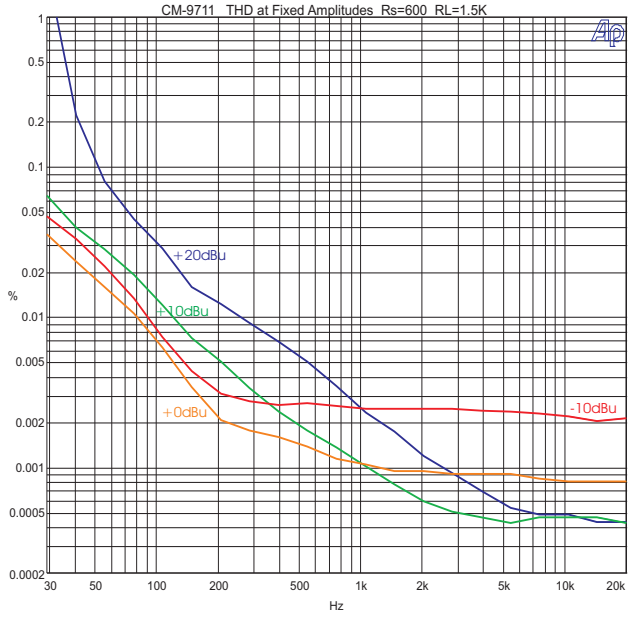
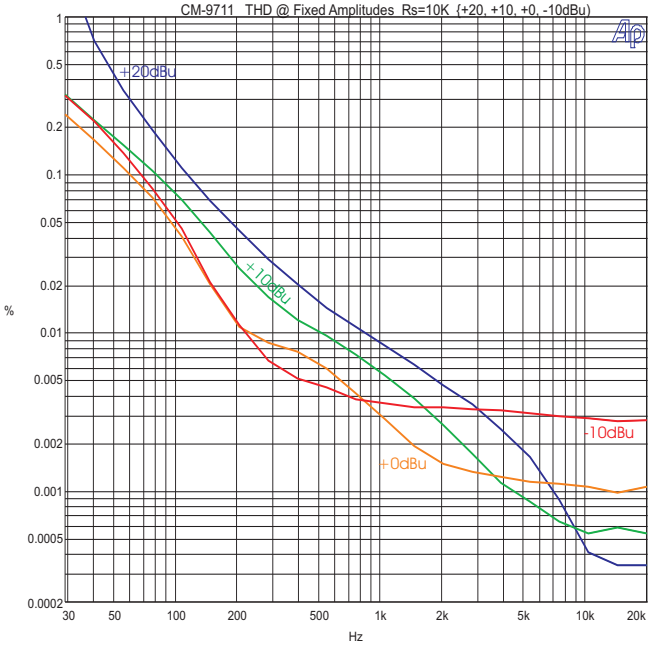
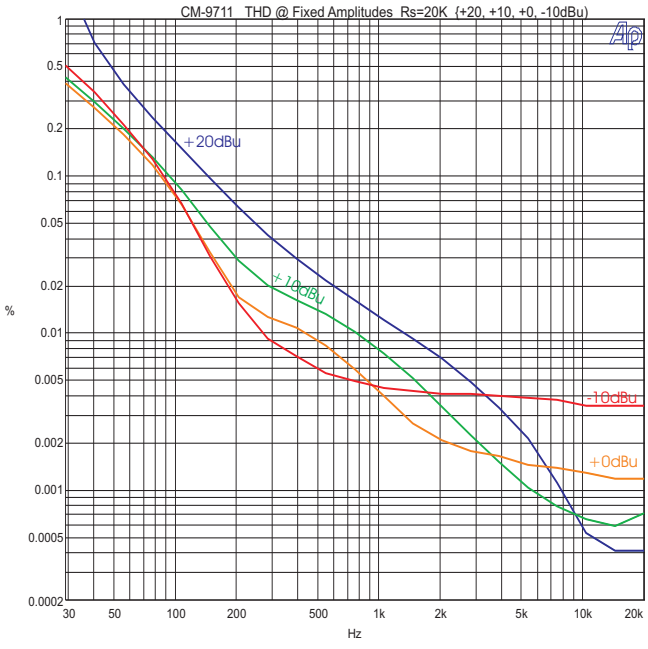
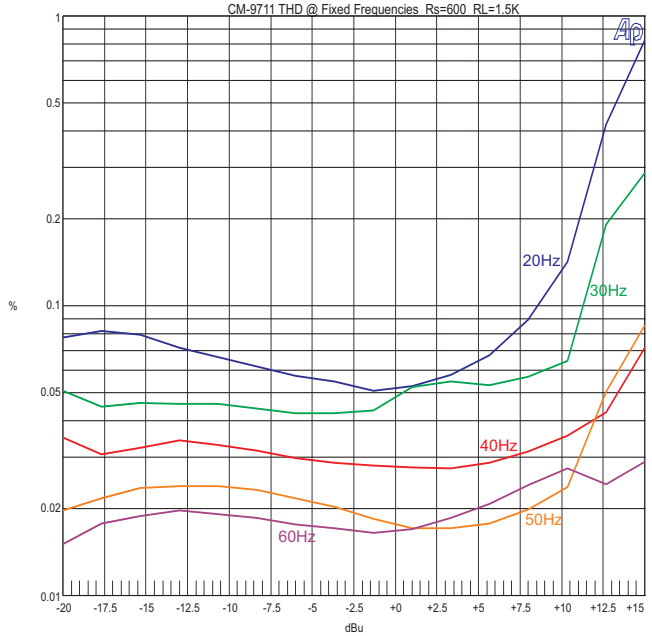
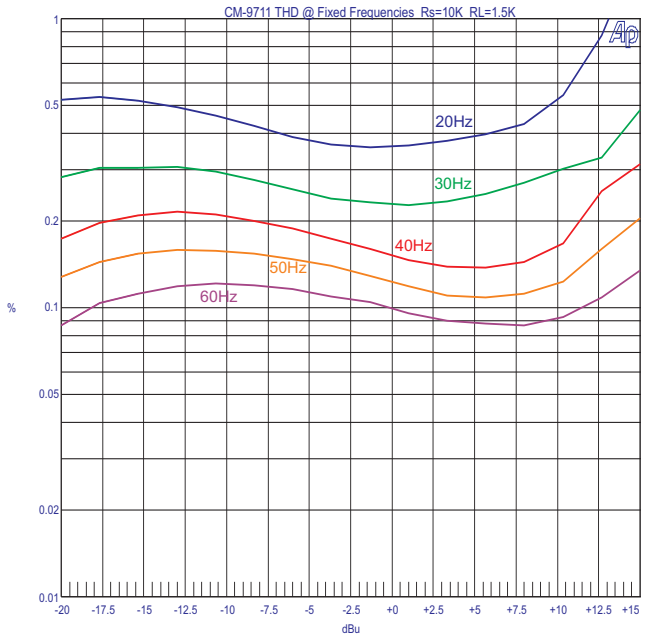

CM-9711 Amplitude v Phase Rs=20K, 10K, 600 RL=1.5K
Rs=20K
Rs=10K
Rs=600
Phase
Rs=600
Rs=10K
Rs=20K
dBu
deg
Hz

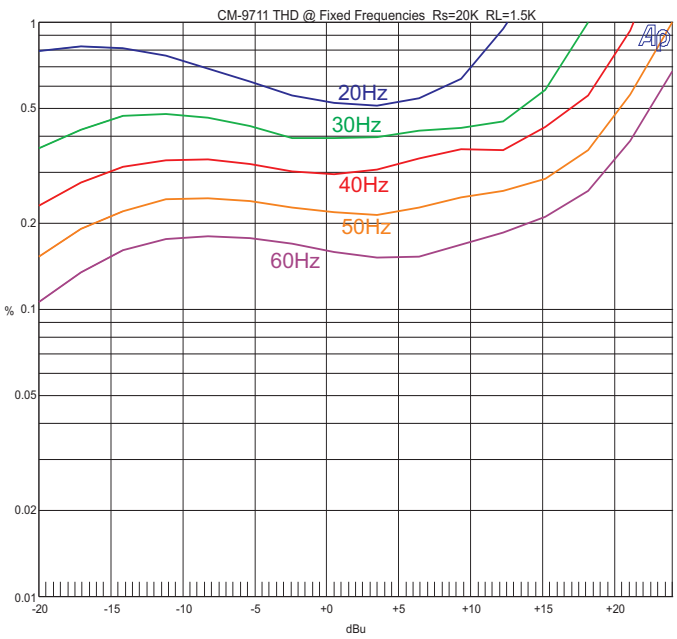

CM-9711 THD at Fixed Amplitudes Rs=600 RL=1.5K
+20dBu
+10dBu
+0dBu
-10dBu
%
Hz

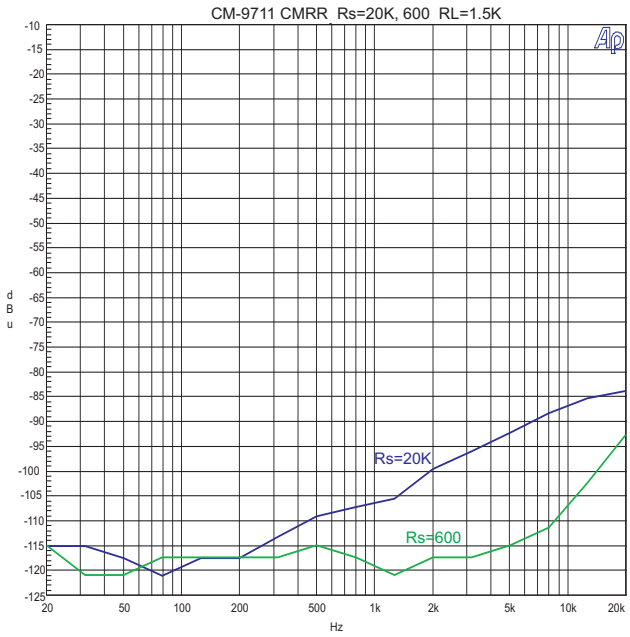

CM-9711 THD @ Fixed Amplitudes Rs=10K {+20, +10, +0, -10dBu)
+20dBu
+10dBu
-10dBu
+0dBu
%
Hz


CM-9711 THD @ Fixed Amplitudes Rs=20K {+20, +10, +0, -10dBu)
+20dBu
+10dBu
-10dBu
+0dBu
%
Hz

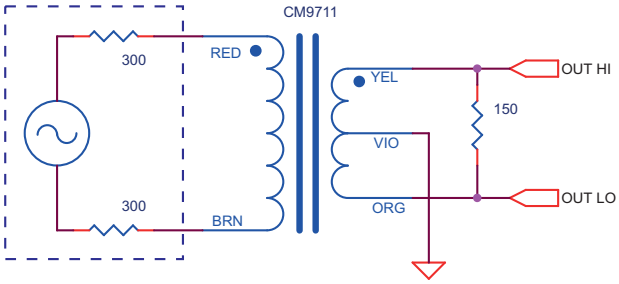

CM-9711 THD @ Fixed Frequencies Rs=600 RL=1.5K
20Hz
30Hz
40Hz
50Hz
60Hz
%
dBu


CM-9711 THD @ Fixed Frequencies Rs=10K RL=1.5K
20Hz
30Hz
40Hz
50Hz
60Hz
%
dBu

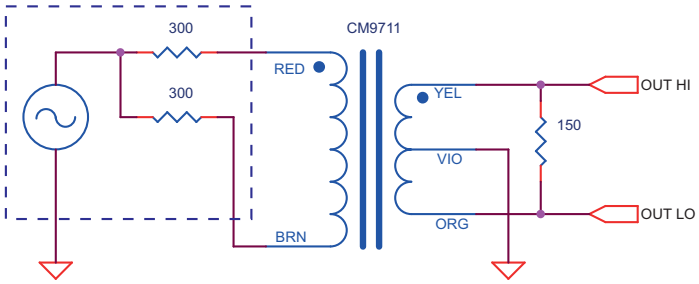




NOTE: All graphs taken from one random sample. No statistical averaging or weighting has been done.



TEST CIRCUIT 1



TEST CIRCUIT 2