



CM-13101

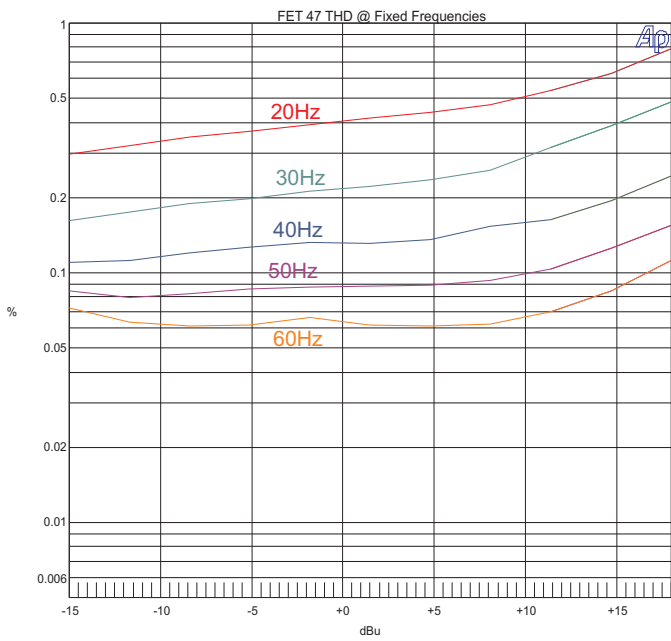
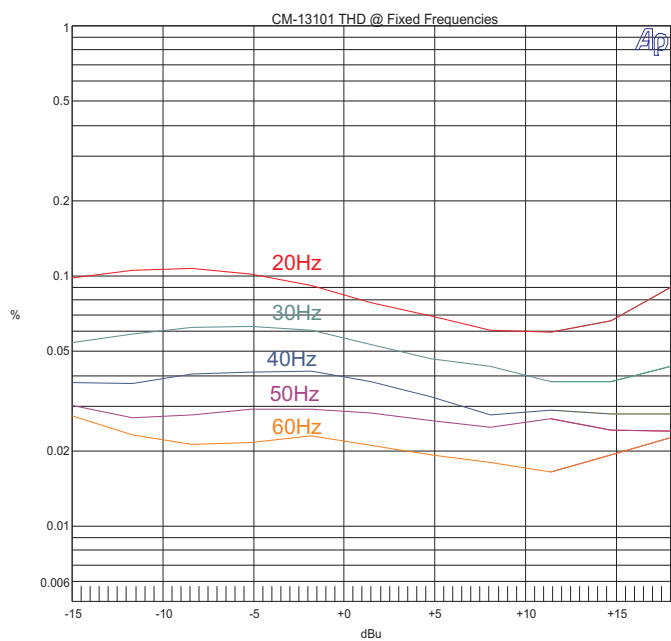
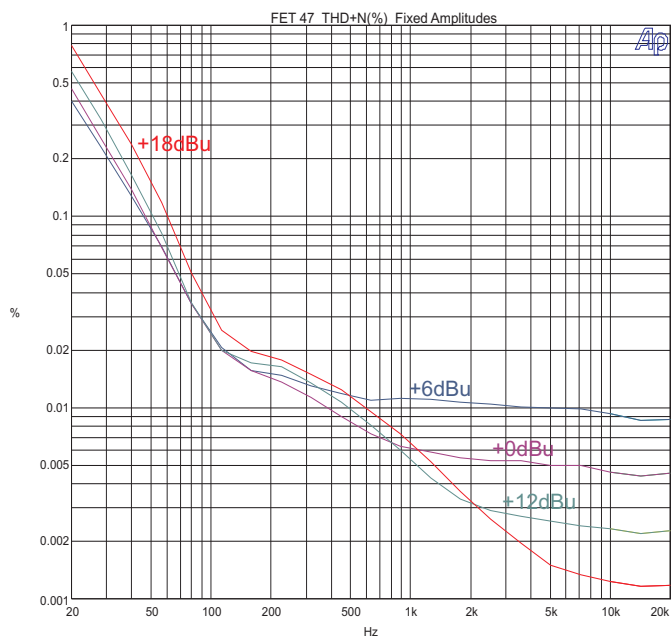
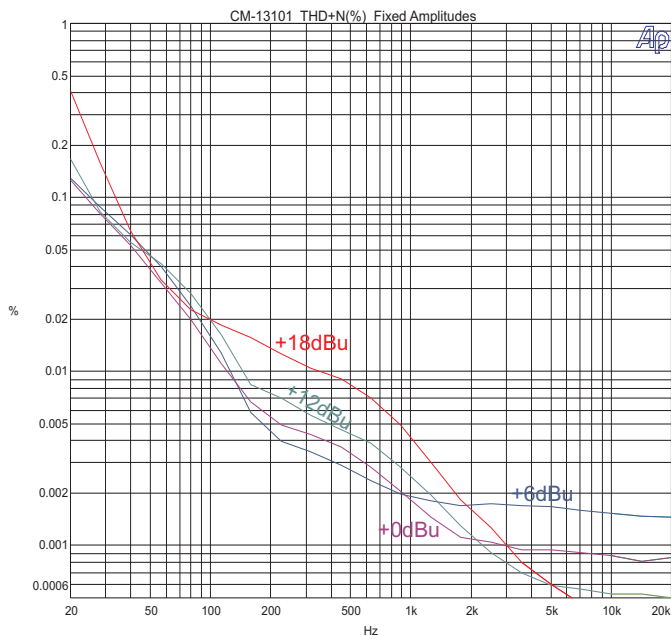
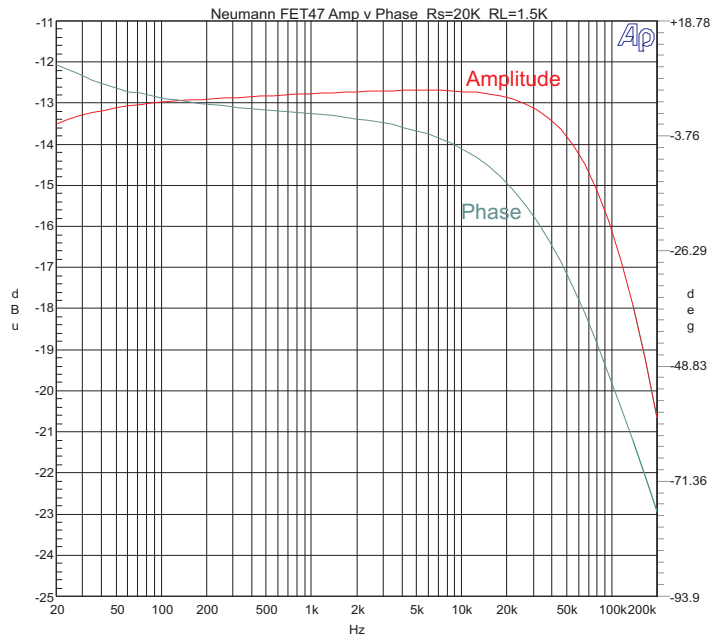
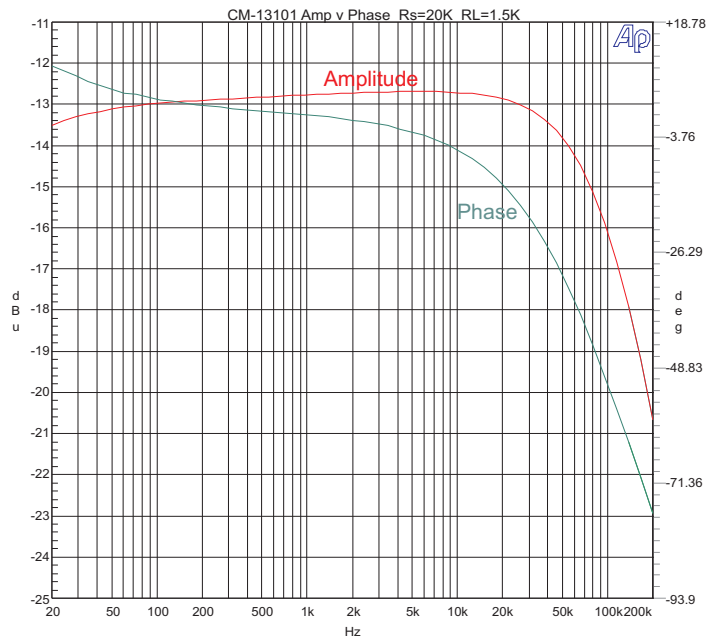
Microphone Output Transformer 9.0 : 1 (16.2K : 200) Step-down FET47 compatible

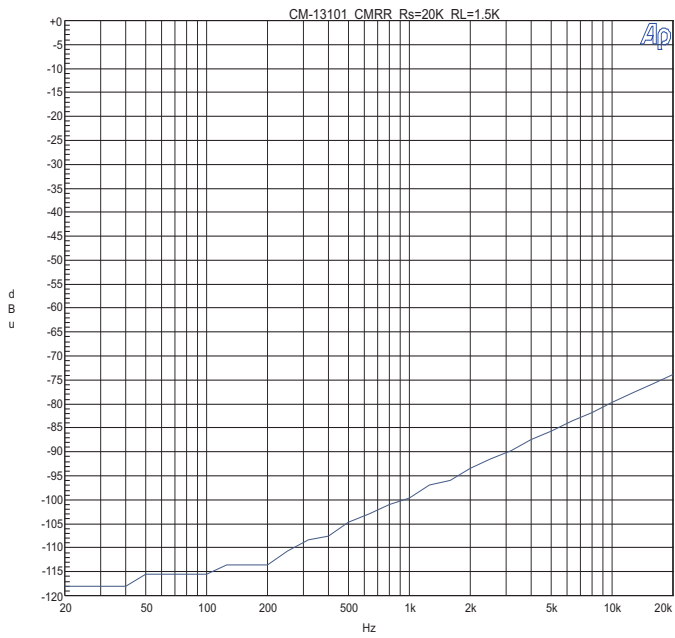
- Faraday shielding
- Good bandwidth (- 3 dB at 100kHz)
- Enriched harmonic characteristics

The CM-13101 was developed as a replacement transformer for Neumann FET47 style microphone circuits. Its distortion level is lower, but exhibits a similar THD at Fixed Frequency curve shape. It can be used with other microphone output circuit topologies requiring this turns ratio. It can be provided with other lamination choices, depending upon the designer's sonic preferences. Employing a hum-bucking design, its capability of rejecting stray magnetic interference is good.

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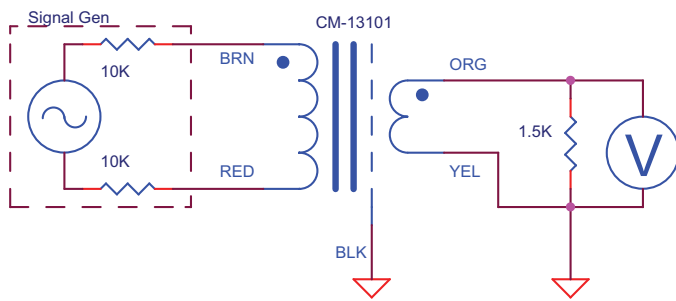
Parameter	Conditions	Typ
Turns Ratio		9.1 : 1
Voltage Gain	1 kHz, Input source impedance 20K 1.5K secondary load impedance	-24.0dBu
Distortion (THD+N%)	1 kHz, +0.0 dBu Test Circuit 1 20 Hz, +0.0 dBu Test Circuit 1	0.004% 0.08%
Max 20 Hz input level	1.0% THD; 20K input, 1.5K secondary load impedance Test Circuit 1	+22 dBu
Response, ref 1 kHz	20 Hz -20 dBu Test Circuit 1 20 kHz -20 dBu Test Circuit 1 -3 dB 90 kHz	-0.8 dB +0.1 dB 90 kHz
Phase Shift at 20 Hz Phase Shift at 20 kHz	Referenced to source generator Test Circuit 1	+6° -23°
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 98dB
Operating Temp Range	Operation and storage	0° C Min 70° C Max



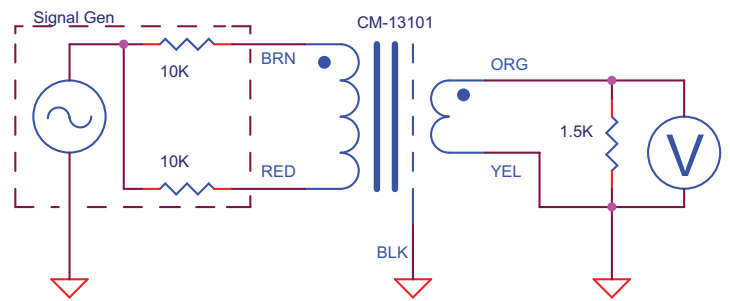


NOTES:

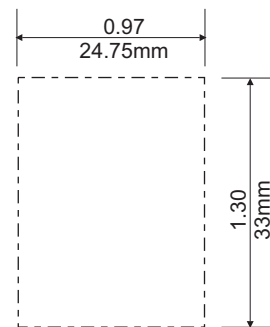
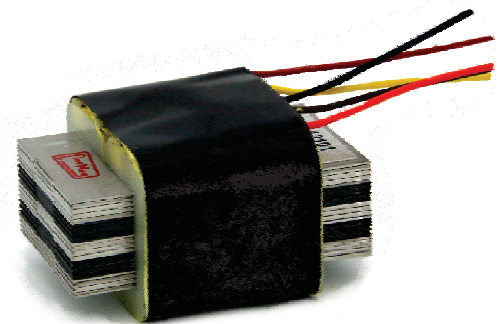
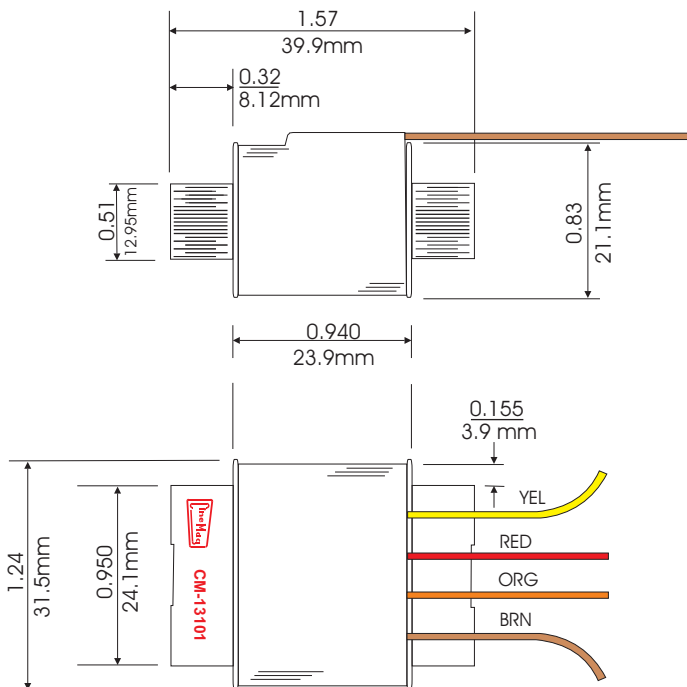
1.All graphs generated from one randomly chosen device. No statistical averaging or weighting.



TEST CIRCUIT 1



TEST CIRCUIT 2



Minimum PCB cutout for in-board mounting