

CM-25305/PC

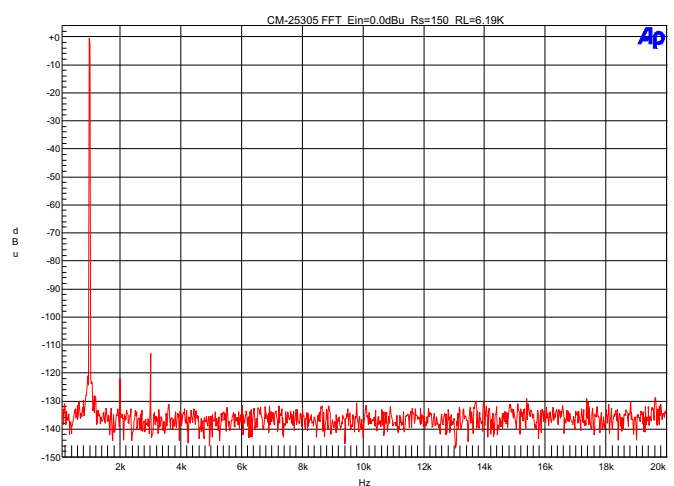
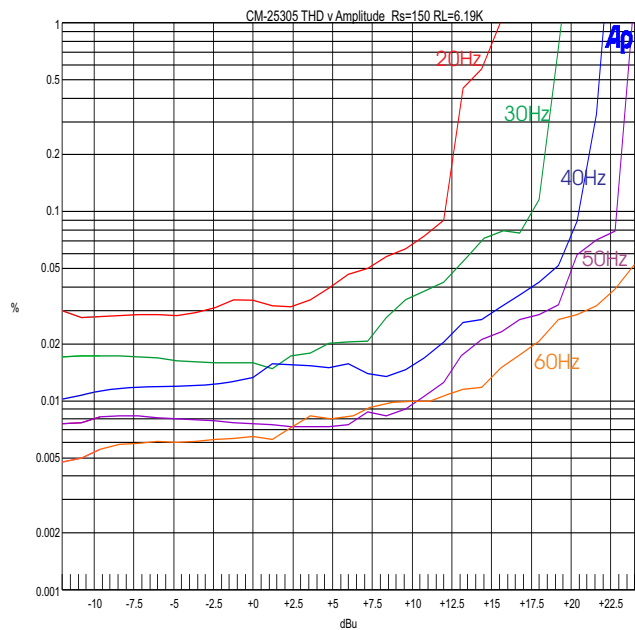
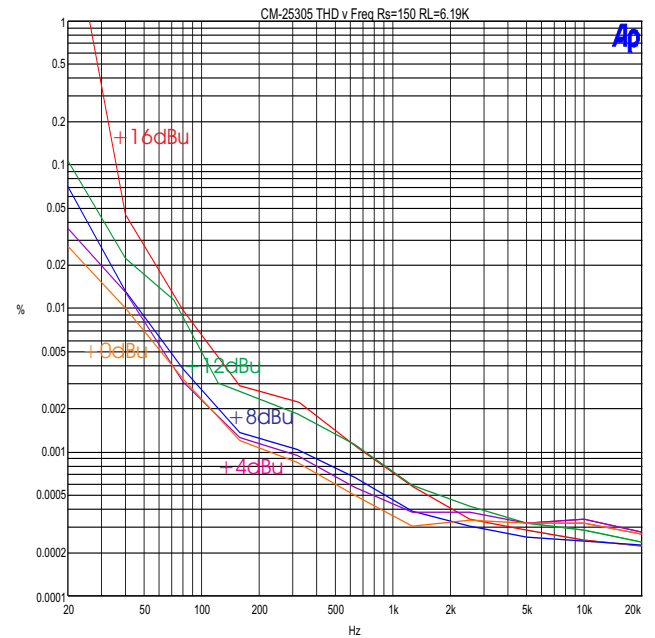
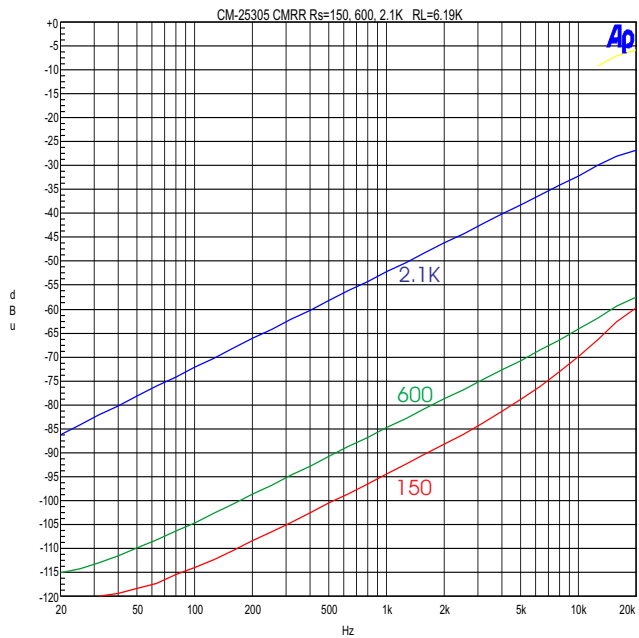
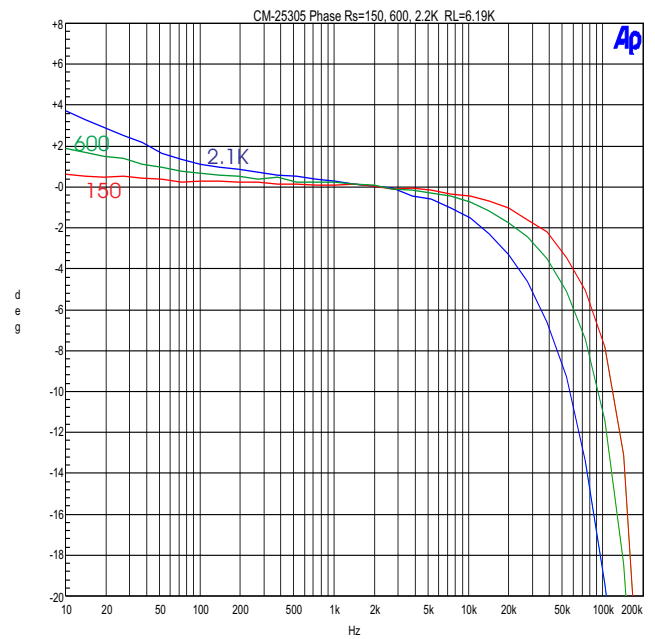
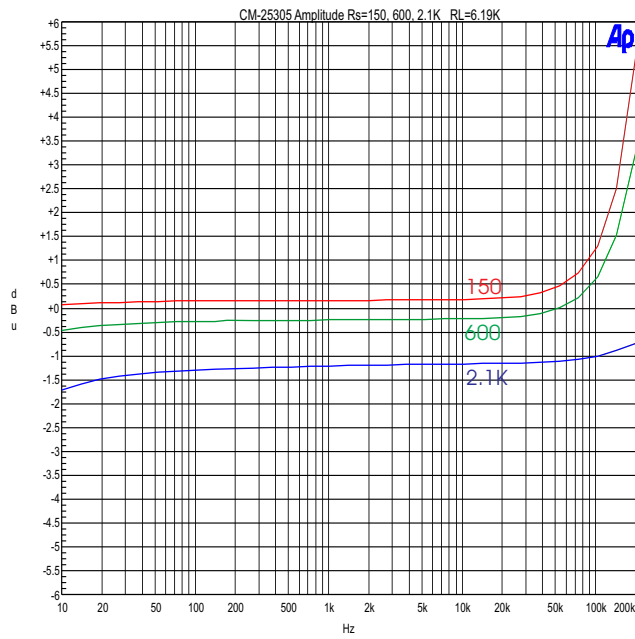
Line Input/Line Output Transformer 1+1:2 Turns ratio

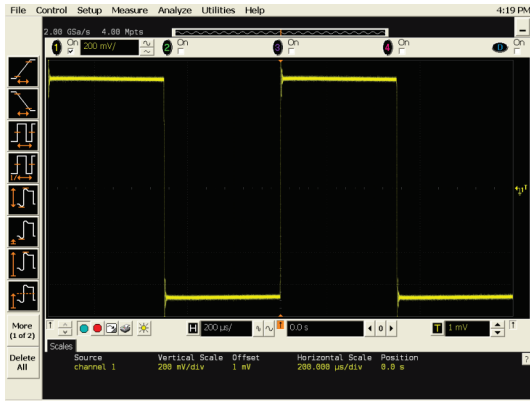
- **Audiophile/ProAudio grade**
- **All windings (primary and 2-secondaries) Faraday shield isolated from each other**
- **Hum-bucking for maximization of magnetic field interference rejection**
- **RCA/XLR input with proper level adjustment for audiophile equipment**

The CM-25305 primarily is an audiophile grade transformer which also has professional audio applications. It doubles both as a line input transformer and a line output transformer. Because there are two equal primary windings, they can be hooked up in series or parallel. When in series, a RCA connector with consumer/audiophile unbalanced signal level can be connected to the center tap for a 1:2 step-up, at the time accepting a balanced signal input for a turns ratio of 1:1 without the need of a switch. The signal characteristics from either input are closely matched. This is a hum-bucking transformer rendering it inherently very resistant to interference from stray magnetic fields. It is available with or without a μ -metal (aka mu-metal) can in a variety of configurations. μ -metal cans provide more than 30dB of additional magnetic field isolation. All μ -metal cans are hydrogen annealed for maximum isolation performance. All Faraday shield drain wires are spot welded to the copper foil shields, thus assuring that all windings are consistently built up and that the connection is very reliable.

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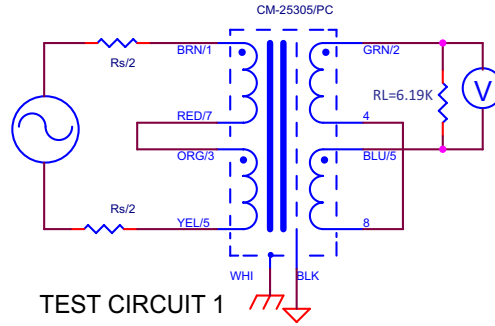
Parameter	Conditions	Typ
Turns Ratio		1+1:2
Distortion (THD+N%) (Series primaries)	1 kHz, +0.0 dBu Test Circuit 1 Rs=40 RL=6.19K 20Hz, +14dBu Test Circuit 1 Rs=40 RL=6.19K	0.005% 1%
Max 20 Hz input level (Primary windings in series)	1.0% THD Test Circuit 1	+14dBu
Response, ref 1 kHz	10 Hz Rs=150 RL=6.19K Test Circuit 1 20 kHz Rs=150 RL=6.19K Test Circuit 1	-0.1dBu +0.1dBu
Phase Shift at 20 Hz Phase Shift at 20 kHz	Referenced to source generator Full primary Test Circuit 1 Full primary Test Circuit 1	+1° -1°
CMRR	60 Hz Test Circuit 2 per IEE Std 389 ¶19 1 kHz Test Circuit 2 per IEE Std 389 ¶19	>115dBu 95dBu
Operating Temp Range	Operation and storage	0° C Min 70° C Max
Max Soldering Temp (printed circuit pins)	5 Seconds	270°C Max



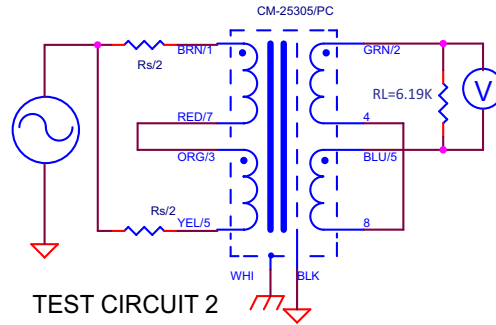


NOTES:

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



TEST CIRCUIT 1



TEST CIRCUIT 2

