



Superior Magnetics Since 1979



# CM-24110

**MICROPHONE OUTPUT TRANSFORMER**  
**4 : 1 Turns Ratio**  
**Center Tap for Phantom Power**  
**High Nickel Core**

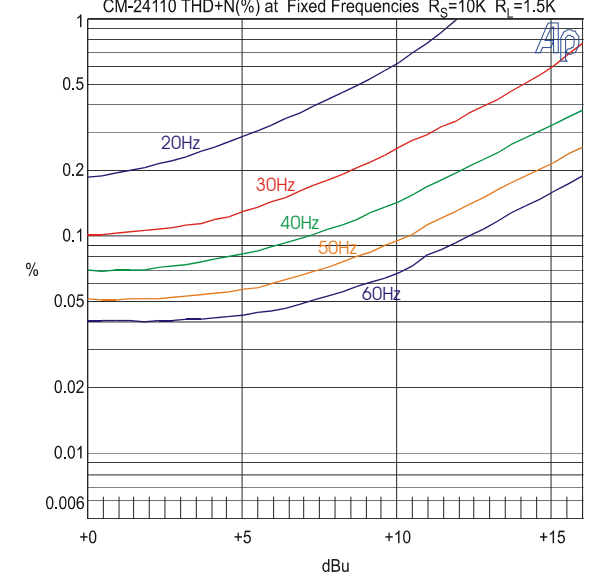
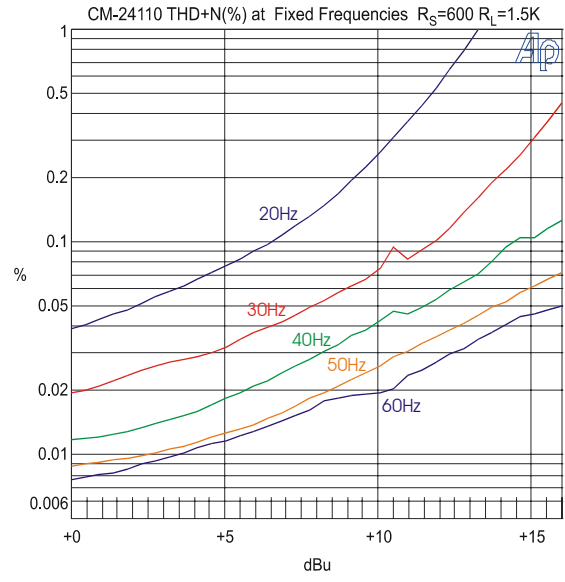
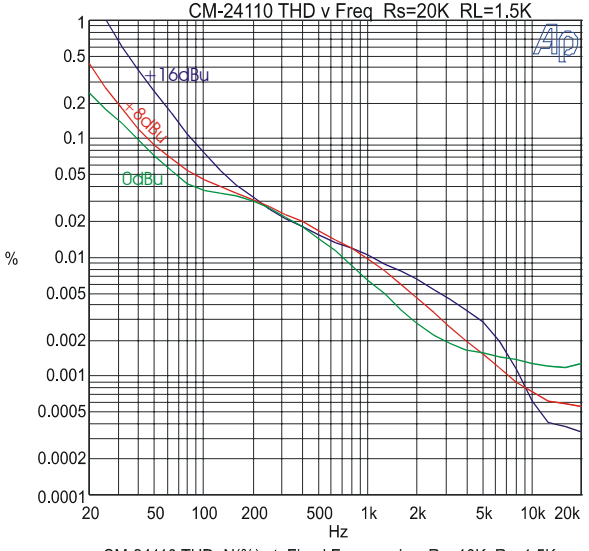
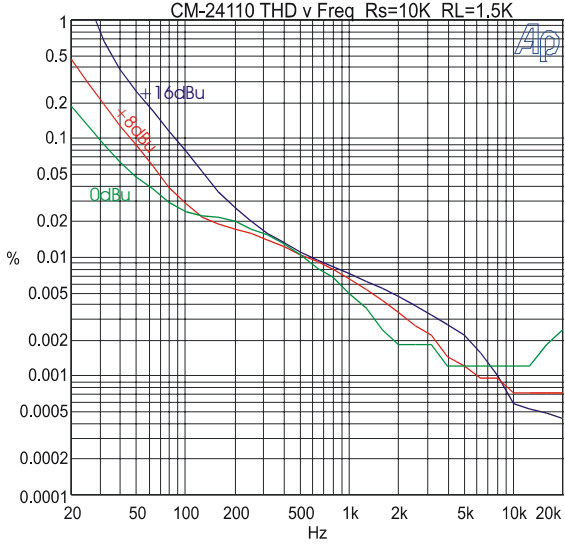
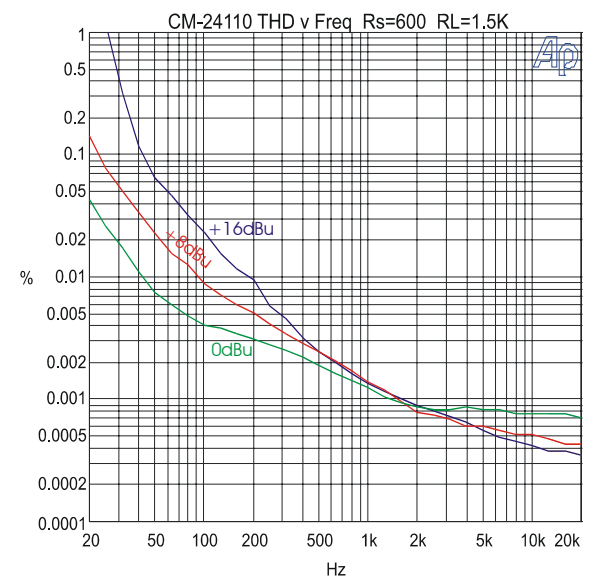
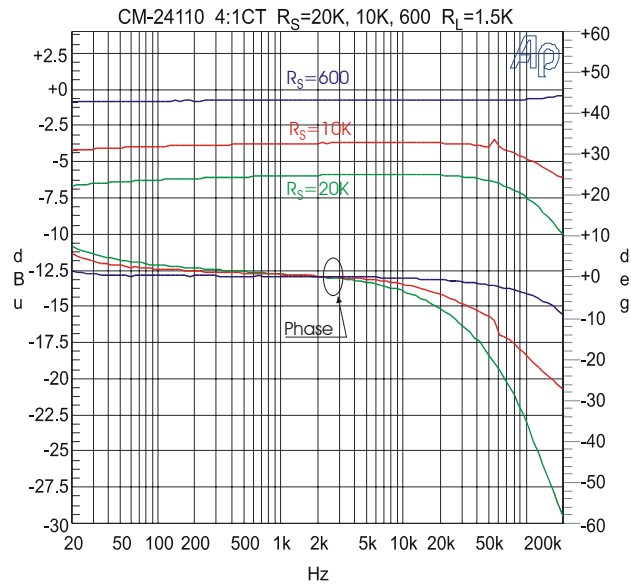
- **Superb Bandwidth**
- **Low distortion**
- **Phase Shift -5° at 20 kHz**
- **Twin Bobbin construction for excellent CMRR and stray magnetic field rejection**

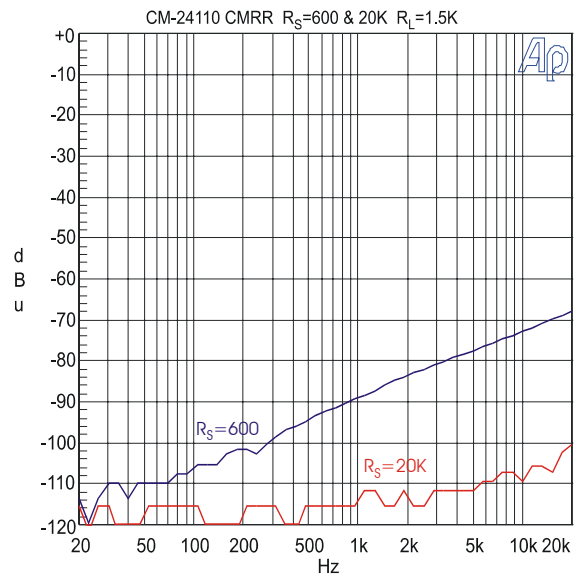
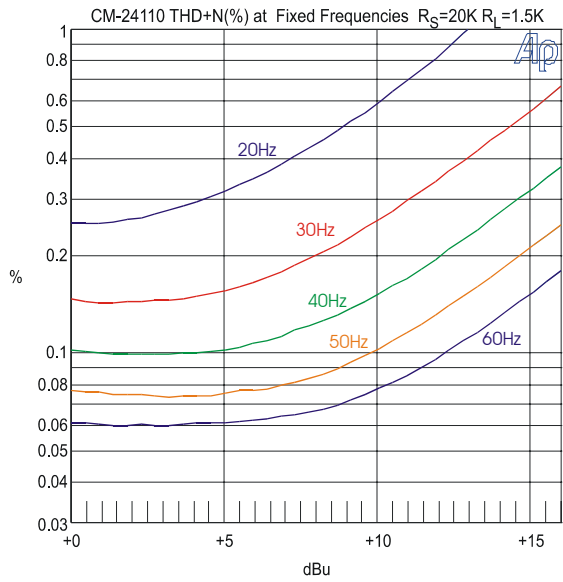
The CineMag CM-24110 microphone output transformer is intended to provide excellent bandwidth and distortion in a very small package. It works very well with high output impedance tube circuits. This enables it to work quite well even with triode output stages. It uses a hum-bucking design giving it very good rejection of stray magnetic interference. Because of this, it also has excellent CMRR. It is optionally available in a mu-metal can.

## CM-24110

| Parameter                                    | Conditions  | Typ                |
|--|---|--------------------|
| Turns Ratio                                  |   | 4 : 1              |
| Voltage Gain                                 | 1kHz Rs=600 RL=150  | -17.3 dBu          |
|  | 1kHz Rs=600 RL=1.5K   | -12.8 dBu          |
|  | 1kHz Rs=2.5K RL=150   | -20.4 dBu          |
|  | 1kHz Rs=2.5K RL=1.5K  | -13.4 dBu          |
|  | 1kHz Rs=5K RL=150   | -23.3 dBu          |
|  | 1kHz Rs=5K RL=1.5K  | -14.3 dBu          |
|  | 1kHz Rs=10K RL=150  | -27.3 dBu          |
|  | 1kHz Rs=10K RL=1.5K   | -15.7 dBu          |
|  | 1kHz Rs=20K RL=150  | -32.0 dBu          |
|  | 1kHz Rs=20K RL=1.5K   | -17.9 dBu          |
| Distortion (THD+N%)                          | 1 kHz, +16 dBu, Rs=10K RL=1.5K Test Circuit 1                   | 0.01%              |
| Max 20 Hz input level                        | 1% THD+N% Rs=10K RL=1.5K Test Circuit 1                         | +12 dBu            |
| Response, ref 1 kHz                          | 20 Hz Rs10K RL=1.5K Test Circuit 1                              | -0.25 dB           |
|  | 20 kHz  | -0.1 dB            |
|  | >200 kHz  | -2 dB              |
| Phase Shift at 20Hz<br>Phase Shift at 20 kHz | Referenced to source generator<br>Rs=10K RL=1.5K Test Circuit 1 | +4°<br>-5°         |
|  |   |                    |
| CMRR   | 60 Hz Test Circuit 2 per IEE Std 389-1996 ¶19                   | 115 dB             |
|  | 1 kHz Rs=600 RL=1.5K  | 112 dB             |
|  | 20 kHz  | 100 dB             |
| Operating Temp Range                         |   | 0° C Min 70° C Max |

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

