

210L POWER AMPLIFIER

10 Watts RF Power For:

- Ultrasonic
- Testing
- Laboratory Use



Featuring:

- 10 KHz – 20 MHz
- 10 W 1dB Compression
- Compact Design
- Solid State Reliability
- Forced Air Cooling

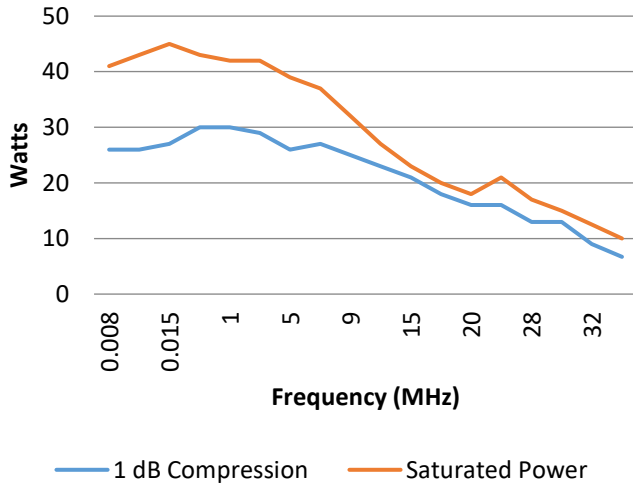


| E&I 210L Specifications* | |
|------------------------------------|---|
| Class of Operation: | Class A |
| Frequency Coverage: | 10 KHz – 20 MHz |
| Rated Power: | 10 Watts P1dB Compression |
| Saturated Power: | 20 Watts |
| Power Gain: | 40 dB nominal |
| Gain Flatness: | +/- 1.5 dB |
| Input Power for Rated Pout: | 1 mW / 0dBm |
| Input Impedance / VSWR: | 50 Ω / 1.5:1 maximum |
| Output Impedance / VSWR: | 50 Ω / 2:1 maximum |
| Harmonic Level: | < -20 dBc @ 10W Pout |
| Ruggedness: | ∞:1 VSWR |
| Stability: | Unconditional into any passive load |
| Protection: | Unit will withstand input signal of +13 dBm without damage (1.0 V rms) max. |
| Third Order Intercept: | IP3 ~ 56 dBm |
| AC Input: | 100 – 240 VAC 47-63 Hz |
| Temperature Range: | 0° – 40° C |
| Cooling: | Forced Air |
| Dimensions (H x W x D): | 3.25 x 13.5 x 12.0 inches 82.55 x 342.9 x 304 mm |
| Weight: | 8.5 lbs (3.9 Kg) |
| Connectors: | BNC |
| RF Input Signal: | AM, FM, SSB, Pulsed |

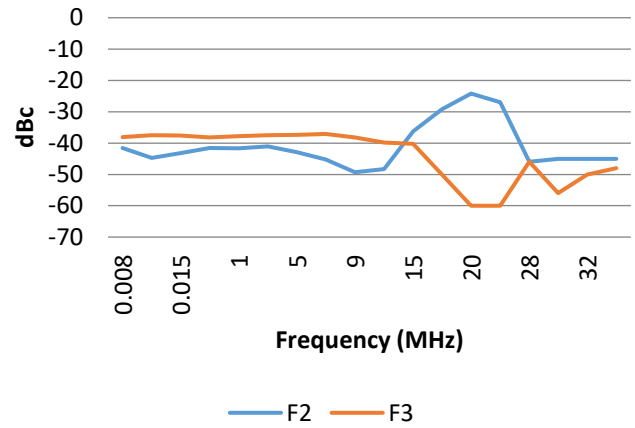


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210L Extended Power Data



Harmonics dBc @ 10 W P_{OUT}



| Input | | | | Amplifier Gain | Output | | | |
|-------------|-------|-------|--------------|----------------|--------|-------|--------|-------|
| Input Power | V p-p | V rms | Output Power | | V p-p | V rms | | |
| Watts | dBm | Volts | Volts | dB | dBm | Watts | Volts | Volts |
| 0.00016 | -8.06 | 0.25 | 0.09 | 40 | 31.94 | 1.56 | 25.00 | 8.84 |
| 0.00063 | -2.04 | 0.50 | 0.18 | 40 | 37.96 | 6.25 | 50.00 | 17.68 |
| 0.00141 | 1.48 | 0.75 | 0.27 | 40 | 41.48 | 14.06 | 75.00 | 26.52 |
| 0.00250 | 3.98 | 1.00 | 0.35 | 40 | 43.98 | 25.00 | 100.00 | 35.36 |



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