

Radiofrequency Modules Line

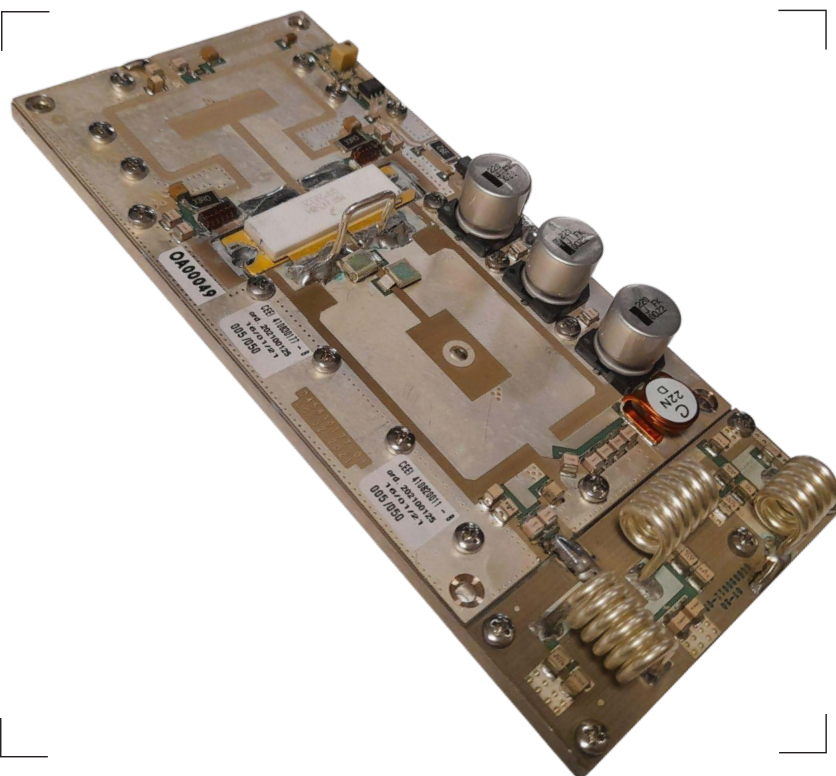
AMPLIFIER (80-110 MHz)



AMPLIFIER

RF CHARACTERISTICS

- Device: NXP MRF1K50H
- Frequency range: 80 - 110 MHz
- DC Power supply: 20-54 V
- Input/Output impedance: 50 Ω
- Class: deep class AB (100mA quiescent current)
- Test Signal: CW
- Output Power ≥ 1300 W (88-108 MHz); @50V drain bias
- Efficiency 80% (80 -110 MHz)
- Power Gain ≥ 23 dB @ 1dB compression
- Load mismatch ruggedness: 65:1 Load VSWR, all phase angles



ADDITIONAL FEATURES

- ☐ Built-in harmonic filter (>75dB harmonic rejection up to 1 GHz)
- ☐ 25 Ω output impedance available
- ☐ Base plate dim: 155x70 mm
- ☐ Typical application: FM Radio, Particle accelerators, industrial heating

