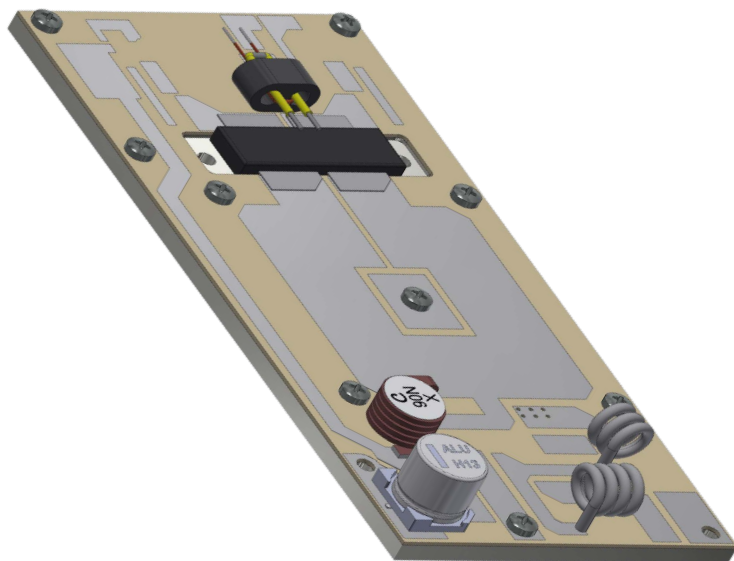


Radiofrequency Modules Line

60 - 90 MHz POWER AMPLIFIER



MAIN FEATURES

- ☐ Built-in directional coupler for forward/reflected power measurement
- ☐ Programmable overcurrent protection
- ☐ RMS load/current voltage and VSWR measurement for reactive loads
- ☐ Balanced architecture for broadband input/output matching & unconditional stability
- ☐ Base plate dim: 139x67 mm
- ☐ Typical application: particle accelerators @81.36 MHz, RF plasma generation, industrial heating



UHF AMPLIFIER

RF CHARACTERISTICS

- Device: NXP MRF1K50N (plastic package)
- Frequency range: 60-90 MHz
- DC Power supply: 20-54 V
- Input/Output impedance: 50 Ω
- Class: class AB
- Test Signal: CW
- Output Power ≥ 900 W @50V drain bias
- Efficiency $\geq 68\%$ @ 1dB gain compression over full frequency band
- Power Gain ≥ 19 dB @1dB compression
- Load mismatch ruggedness: 65:1 Load VSWR, all phase angles

