NXP's 1500 W RF Power Transistor Sets New Benchmark

April 13, 2016

MRF1K50H



1.8-500 MHz 1500 W CW

Highlights:

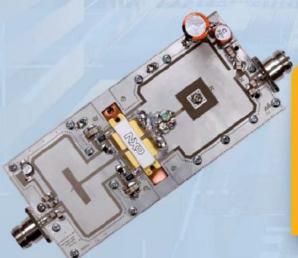
- Industry's most powerful RF transistor in any technology operating at any frequency: 1500W CW @ 50V over 1.8-500 MHz
- Extreme ruggedness: 65:1 VSWR with the best energy absorption on the market
 - 35% more energy absorption than closest competing devices. Ideal for ISM applications
- Pin-compatible with existing solutions: same footprint, same PCB, only light retuning needed (similar output capacitance), enabling fast time-to-market

Target Markets:

- -FM broadcast
- -VHF TV broadcast
- -CO2 laser
- -Plasma Generation
- -Particle accelerators
- -Medical
- -Amateur radio
- -Material welding

Technical Features:

- Unmatched Input and Output
- · Push-Pull
- Housed in an NI-1230 air-cavity ceramic package (H version)
- Extreme Ruggedness: 65:1 VSWR
- Product Longevity Program: warranted availability until 2031

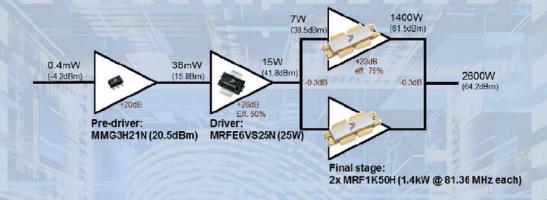


Available Reference Circuits:

Board Freq.	Power (W)	Gain (dB)	Drain Eff. (%)
81.36 MHz	1400 CW	23.0	75.0
87.5—108 MHz	TBD CW	TBD	TBD
230 MHz	1500 W	23.5	74.0

Recommended Line-ups







ORDERABLE PART #	IMPORTANT ORDERING INFORMATION		
MRF1K50HR5	Available Now		
SAMPLES AVAILABLE			

Links and Contacts:

Product Selector Guide

Reference Circuit Assembly Request Tool

Golden Presentation

Launch Matrix

Application Notes

White papers & webinars

Product Longevity Program

NXP YouTube Channel

Twitter-@RFLeonard

RF Multi-Market Contacts:

Gavin Smith (America)

Paul Gan (Asia, Japan)

John Powell (Europe)

RF Tactical Marketing:

Nathan Glaza