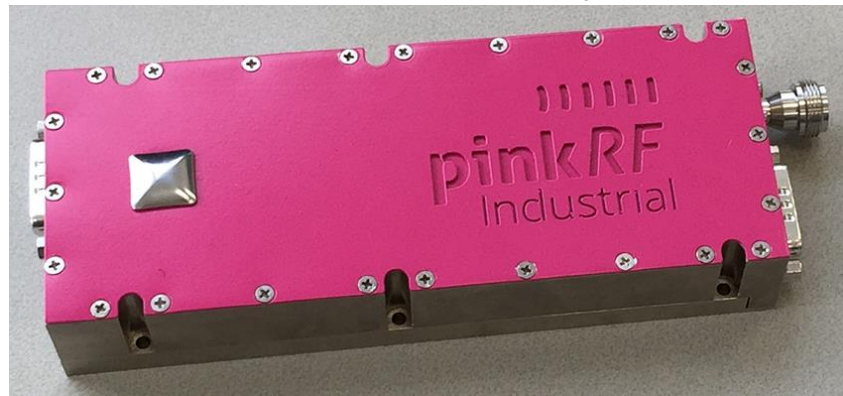




Turn-key RF Energy Systems for cooking, lighting, industrial and medical applications

www.pinkrf.com



prf02502450PCxT
250W RF out power amplifier module in the 2.45GHz band

Discription

Compact, efficient and extremely rugged power amplifier module. It delivers 250W RF out within the 2.4 to 2.5 GHz ISM band. Built-in are couplers and over-temperature protection. To be combined with pinkRF's prf00xG2450 generators to drive any kind of RF energy application.

Product summary

RF saturated output power (W/dBm)	250 / 54
Frequency band (GHz)	2.4 - 2.5
Gain @ saturated power (dB)	≤ 30
DC Voltage (V)	32
Current (A)	≤ 18

Features & Benefits

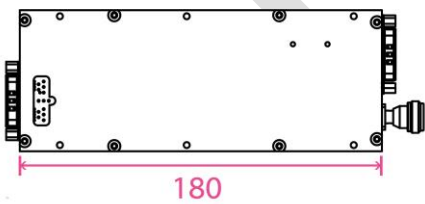
- Infinite ruggedness
- High gain
- High efficiency
- Hardware over-temperature shutdown
- Built-in coupler and detectors
- Analog output voltages for forward and reflected power readings
- Analog and digital interfaces

Applications

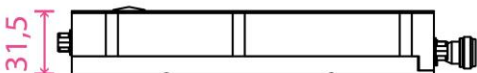
- Demanding, high power RF energy

Module Size

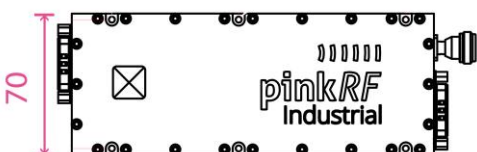
Length (without connectors, mm)	180
Width (mm)	72
Height (without heatsink, mm)	31.5
Shielded box	Yes



180



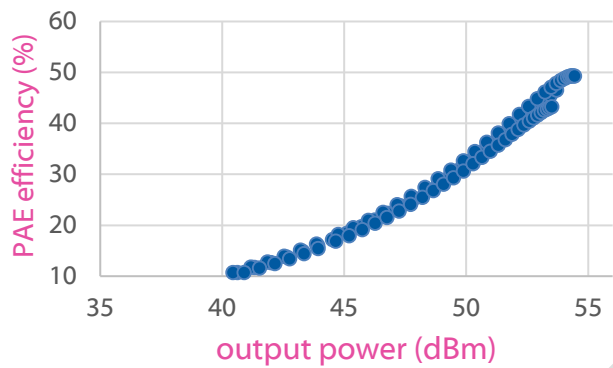
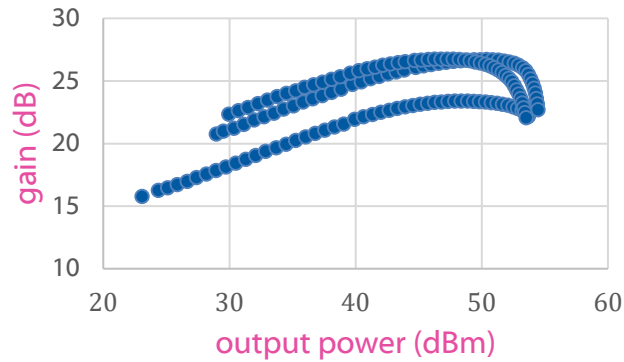
31,5



70

63

83



Specifications

RF saturated o Output power (W/dBm)	250 / 54
Frequency band (GHz)	2.4 - 2.5
Gain @ saturated power (dB)	≤ 30
PAE (%)	52
Max. VSWR at output	Infinite
Input return loss (dB)	10
AM to PM	To be determined
Circulator / isolator	Built-in
Built-in coupler directivity (dB)	16

Functionality

RF enable (GPIO)
Temperature compensated bias
Temperature final transistor (via I2C)
Temperature ambient (via I2C)
Forward power (analog output and via I2C)
Reverse power (analog output and via I2C)

Power Supply

DC Voltage (V)	32
Current (A)	≤ 18

Contact Information



pinkRF B.V.
 Transistorweg 7D
 6534AT Nijmegen
 the Netherlands

Tel +31 85 040 9062
sales@pinkrf.com
www.pinkrf.com

© 2017 pinkRF B.V.
 all rights reserved

