RADITEK INC.

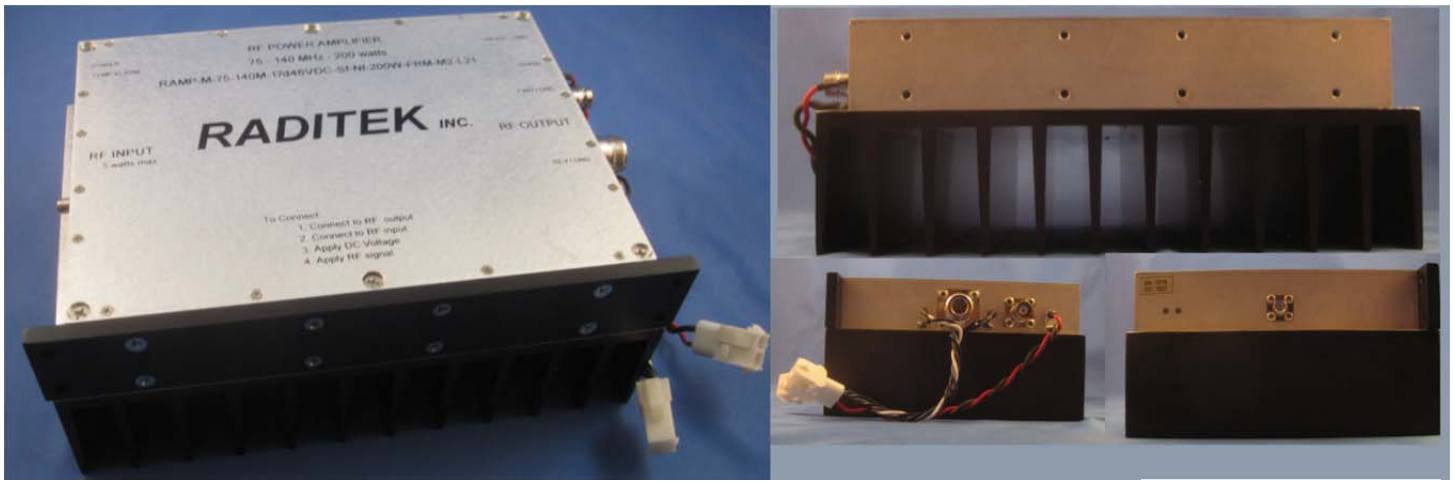
MADE IN USA

RoHS COMPLIANT

code-L21

Power Amplifier 75-140MHz

17 dB Gain, 46Volt DC, SMA female to N female Connectors, 200Watts, Forward & Reverse Monitoring, Module



5 Year Warranty

Heatsink and mounting plate included

Note: Symmetrical mounting holes on top and bottom of long side so amplifier can be mounted with N-output connector is to the left or right side.

Order Examples: **RAMP-M-75-140M-17d46VDC-Sf-Nf-200W-FRM-M3-L21**

Description: *(Power Amplifier Module, 75-140MHz, 17dB Gain, 46Volts DC, SMA female to N female Connector, 200 Watts, Forward & Reverse Monitoring)*

Parameter	Specification
Frequency Range	75-140MHz
Power out @ Psat	200W
Power out @ 2.8 watts input @ 100 MHz	162.5 w +/- 2.5 w
Gain @ 5 watts output @ 100 MHz	14 dB min
Gain Flatness @ 200W Output	± 2.0 dB
Voltage	+46VDC
Current at 46 Volts @ 200Watts	13 amps max.
Connectors	SMA Input / N-type Output
Dimensions	L 7.5” x W 6.5” x H 1.25” max Height w/ Heat Sink 3.25”
Operating Temperature Range	-20 to +75°C
2nd Harmonic	-20 dBc max
3rd Harmonic	-25 dBc max
DC input /Monitors	Feed thru filters with cable assemblies
Input VSWR	2:1
RF Coupled Port @ 100 MHz	-37 dBc +/- 2 dB
Forward Monitor @ 160 watts @ 100 MHz - 1.5K load	1.5 volts +/- .2 v
Reverse Monitor into open @ 10w @ 100MHz - 1.5K load	Equal to Forward monitor +/- .1 v
Class mode	Class AB

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Power Amplifier 75-140MHz

17 dB Gain, 46Volt DC, SMA female to N female Connectors, 200Watts, Forward & Reverse Monitoring, Module

J3 is our RF forward power sample via BNC connector.

J4 has the forward and reverse voltages and Is TE Connectivity / Amp PN 172160-1 w male pins PN 170366-1
Pin 1 = (white) FWRD POWER
Pin 2 = (black) GND
Pin 3 = (white) REFLECTED POWER
Pin 4 = (black) GND

J5 has the amp power and is TE Connectivity/Amp PN 350778-1 with male pins PN 350550-1
Pin 1 = (red) +46VDC
Pin 2 =(black) return

Revision History

Rev	Date	Event	Details	Initiated by	Approved By	Approved By
1	2/26/16	Release	Production Release	Tim Avicola	Willow Toso	Peter Corbett
2	9/8/16	Change	Power Output setting change from 2.7W i/p, 160W o/p @100MHz to 2.8W i/p, 162.5W +/- 2.5W @100MHz set >3 Minutes after switch on.	Devin Ellis	Tim Avicola	Peter Corbett

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