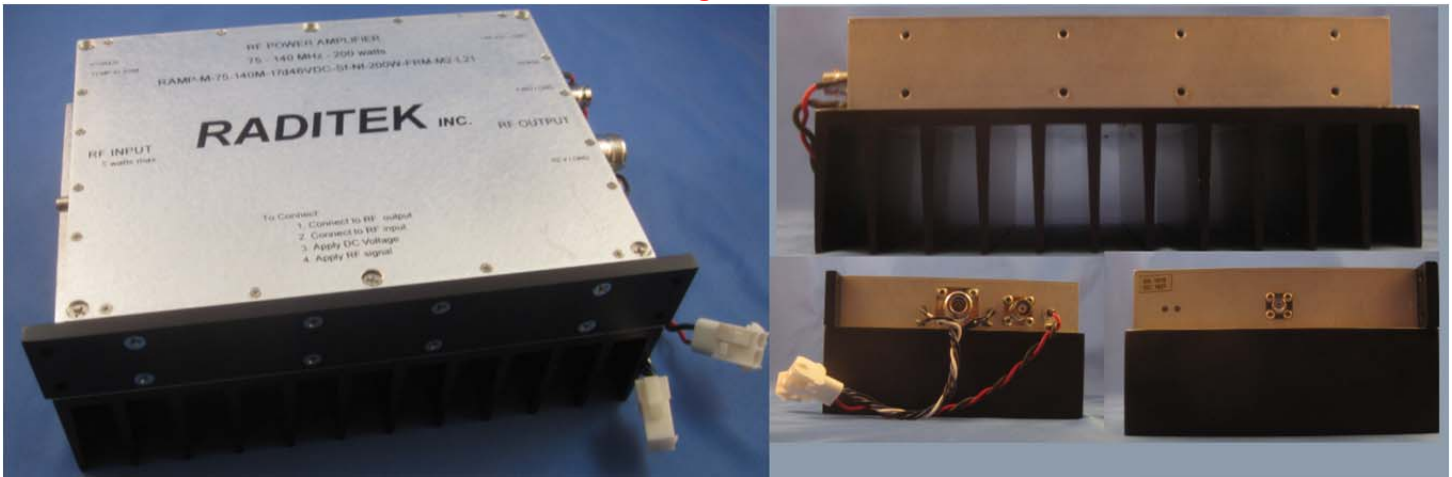


Power Amplifier 75-140MHz

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

This is a Controlled document, All Changes must be coordinated with the Customer



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-m2-r3-L21

Description: (Power Amplifier Module, 75-140MHz, 17dB Gain, 46Volts DC, SMA female to N female Connector, 200 Watts, Forward & Reverse Monitoring) **Rev 3**

Parameter	Specification
Frequency Range	75-140MHz
Power out @ Psat 75-120MHz	200W (100 watts @140 MHz)
Power out @ 2.8 watts input @ 100 MHz	162.5 w +/- 2.5 w
Gain @ 100 MHz @ 162.5W RF output	17 dB min
Gain Flatness @ 200W Output	± 2.0 dB
Voltage	+46 to 50 VDC
Current at 46 Volts @ 200Watts	13 amps max.
Connectors	SMA Input / N-type Output
Dimensions	L 7.5" x W 5.65" x H 1.25" max Housing L 8.38" x W 5.9" x H 3.25" Housing w/ Heat Sink
Operating Temperature Range	-20 to +75°C
2 nd Harmonic	-30 dBc max (Peak value of -20 allowed at 75-82MHz)
3 rd Harmonic	-30 dBc max
DC input /Monitors	Feed thru filters with cable assemblies
Input VSWR (Return Loss)	<2:1 (>9.54dB)
Output VSWR (Return Loss) (@ 5 amp bias / quiescent current @ 100 MHz)	<1.43:1 (>15dB)
RF Coupled Port @ 100 MHz	-37 dBc +/- 2 dB

RAMP-M-75-140M-17d46VDC-Sf-Nf-200W-FRM-M2-L21 Specifications may be subject to change 03/01/18

WORLD HQ: 1702L Meridian Ave. Suite 127, San Jose, Ca 95125, U.S.A.

Tel: (408) 266-7404

FAX: (408) 266-4483

WEB: www.raditek.com

E-mail: sales@raditek.com



Power Amplifier 75-140MHz

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

This is a Controlled document, All Changes must be coordinated with the Customer

Parameter	Specification
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 +/- 0.1 v
Class mode	Class AB

J3 is our RF forward power sample via BNC connector. -37dBc

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 no rev marking	2/26/16	Release	Production Release	Tim Avicola	Willow Toso	Peter Corbett
2 marked R on S# label and m2	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
3 R3 marked on S# Label	5/26/17	Change S# 1116>	WAS RAMP-M-75-120M-17d46VDC-Sf-Nf-200W-FRM-m2-L21 IS RAMP-M-75-120M-17d46VDC-Sf-Nf-200W-FRM-m2-r3-L21	Tim Avicola	Paul Turner	Peter Corbett
3 R3	1/25/18		Correct typo on size dimensions	Peter Corbett	Peter Corbett	Peter Corbett

Rev 3 change Detail	was	is
Power out @ Psat (75-120MHz)	200W	200W (100 watts @140 MHz)
Voltage	+46VDC	+46-50 VDC
2 nd Harmonic	-20 dBc max	-30 dBc max (Peak value of -20 allowed at 75-82 MHz)
3 rd Harmonic	-25 dBc max	-30 dBc max
Input VSWR (Return Loss)	<2:1	<2:1 (>9.54dB)
Output VSWR (Return Loss) (@ 5 amp bias / quiescent current @ 100 MHz)		<1.43:1 (>15dB)

RAMP-M-75-140M-17d46VDC-Sf-Nf-200W-FRM-M2-L21 Specifications may be subject to change 03/01/18

WORLD HQ: 1702L Meridian Ave. Suite 127, San Jose, Ca 95125, U.S.A.

Tel: (408) 266-7404

FAX: (408) 266-4483

WEB: www.raditek.com

E-mail: sales@raditek.com