

Power Amplifier 1.5 MHz to 18 GHz, Split Bands 19" Rack Mount Family Data Sheet

Typical Applications

- Solid State GaAs/GaN Design
- Instantaneous full Bandwidth
- Unconditional stability
- Control line for remote operation
- Reverse polarity protection
- Reverse power protection
- Over temperature protection & Alarm
- Rack mount unit: 19" x 15" x 3.5"

Features

- 100-240 VAC Power Supply



5 Years Warranty"

General Description:

These are wideband CW/Pulse Power Amplifier, designed pulse operation, and general-purpose, amplification. Using an advanced high power density LDMOS and GaN semiconductor processes, these high performance amplifiers achieve high efficiency, flat gain, and large instantaneous bandwidth in a single amplifier design.

Order Example: RAMP-R-3.0-3.5-50d-240V-Nf-100W-L21

Description: (Power Amplifier, 19" Rack, 3.0-3.5GHz, 50 dB Gain, 240V Power Supply Voltage, Nf Connectors, 100Watts)

PA basic specifications	Typical	Units
Frequency	3.0-3.5	GHz
Psat Output Power	51.76dBm (150W)	dBm (W)
P1dB Output Power	50dBm (100W)	dBm (W)
Small Signal Gain	50	dB min
Gain flatness	±2dB	dB max
Noise Figure	8	dB max
Input Return Loss	10	dB
Output Return Loss	10	dB
Power Supply Voltage	100-240	VAC
Operating Temperature	0 ~ +50	°C
Storage Temperature	-40 ~ +85	°C
Relative Humidity	95(non-condensing)	%
Altitude	30,000 (Mil-STD-810F Method 500.4)	feet
Vibration/Shock	Airborne (MIL-STD-810F Method 514.5)	
Dimensions L x W x H (4U)	19x15x3.5"	inches
RF Connectors	SMA/N Female	

Full Range of Standard Product follows

RAMP-R-1.5MHz-18GHz-Split Bands Family-L21

Specifications may be subject to change

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Product Range

Class A: Ultra Linear Class B: Linear

S opt : INTELLIGENT / Controlled Output / VSWR Protection Monitoring

Note: A detailed data sheet will be provided with every quote.

Freq Min	Freq Max	Power	Gain	Supply VAC	Class	Raditek Part #
(MHz)	(MHz)	(Watts)	(dB)			
1.5	30	100	40	120/240 Vac	A	RAMP-R-1.5-30M-40d-120/240V-100W-A-L21
1.5	30	100	40	120/240 Vac	AB	RAMP-R-1.5-30M-40d-120/240V-100W-AB-L21
20	1000	5	45	120/240 Vac	A	RAMP-R-20-1000M-45d-120/240V-5W-A-L21
20	1000	5	45	120/240 Vac	AB	RAMP-R-20-1000M-45d-120/240V-5W-AB-L21
25	1000	10	40	120/240 Vac	AB	RAMP-R-25-1000M-40d-115/230V-Sf-10W-AB-L21
29.7	50	100	1	120/240 Vac	S opt	RAMP-R-29.7-50M-1d-120/240V-100W-S opt-L21
29.7	50	100	5	120/240 Vac	S opt	RAMP-R-29.7-50M-5d-120/240V-100W-S opt-L21
29.7	50	100	10	120/240 Vac	S opt	RAMP-R-29.7-50M-10d-120/240V-100W-S opt-L21
30	512	25	30	120/240 Vac	A	RAMP-R-30-512M-30d-120/240V-25W-A-L21
30	512	50	40	120/240 Vac	A	RAMP-R-30-512M-40d-120/240V-50W-A-L21
30	512	100	30	120/240 Vac	AB	RAMP-R-30-512M-30d-120/240V-100W-AB-L21
30	512	150	40	120/240 Vac	AB	RAMP-R-30-512M-40d-120/240V-150W-AB-L21
88	108	100	30	120/240 Vac	A	RAMP-R-88-108M-30d-120/240V-100W-A-L21
88	108	300	30	120/240 Vac	AB	RAMP-R-88-108M-30d-120/240V-300W-AB-L21
100	1000	50	30	120/240 Vac	A	RAMP-R-100-1000M-30d-120/240V-50W-A-L21
100	1000	50	50	120/240 Vac	A	RAMP-R-100-1000M-50d-120/240V-50W-A-L21
100	1000	80	30	120/240 Vac	A	RAMP-R-100-1000M-30d-120/240V-80W-A-L21
100	1000	80	30	120/240 Vac	AB	RAMP-R-100-1000M-30d-120/240V-80W-AB-L21
100	1000	80	50	120/240 Vac	A	RAMP-R-100-1000M-50d-120/240V-80W-A-L21
100	1000	80	50	120/240 Vac	AB	RAMP-R-100-1000M-50d-120/240V-80W-AB-L21
100	1000	150	30	120/240 Vac	AB	RAMP-R-100-1000M-30d-120/240V-150W-AB-L21
100	1000	150	50	120/240 Vac	AB	RAMP-R-100-1000M-50d-120/240V-150W-AB-L21
100	18000	1	33	120/240 Vac	A	RAMP-R-100-18000M-33d-120/240V-1W-A-L21
136	174	125	1	120/240 Vac	S opt	RAMP-R-136-174M-1d-120/240V-125W-S opt-L21
136	174	250	5	120/240 Vac	S opt	RAMP-R-136-174M-5d-120/240V-250W-S opt-L21
136	174	500	10	120/240 Vac	S opt	RAMP-R-136-174M-10d-120/240V-500W-S opt-L21
200	2200	25	30	120/240 Vac	A	RAMP-R-200-2200M-30d-120/240V-25W-A-L21
200	2200	25	50	120/240 Vac	A	RAMP-R-200-2200M-50d-120/240V-25W-A-L21
200	2200	50	30	120/240 Vac	A	RAMP-R-200-2200M-30d-120/240V-50W-A-L21
200	2200	50	50	120/240 Vac	A	RAMP-R-200-2200M-50d-120/240V-50W-A-L21
200	2200	60	30	120/240 Vac	AB	RAMP-R-200-2200M-30d-120/240V-60W-AB-L21



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200	2200	60	50	120/240 Vac	AB	RAMP-R-200-2200M-50d-120/240V-60W-AB-L21
200	2200	100	30	120/240 Vac	AB	RAMP-R-200-2200M-30d-120/240V-100W-AB-L21
200	2200	100	50	120/240 Vac	AB	RAMP-R-200-2200M-50d-120/240V-100W-AB-L21
200	18000	1	33	120/240 Vac	A	RAMP-R-200-18000M-33d-120/240V-Sf-1W-A-L21
200	18000	1.122	37	120/240 Vac	A	RAMP-R-200-18000M-37d-120/240V-Sf-30.5dBm-A-L21
250	1000	10	45	120/240 Vac	AB	RAMP-R-250-1000M-45d-120/240VSf-10W-AB-L21
300	18000	1.122	37	120/240 Vac	A	RAMP-R-300-18000M-37d-120/240V-Sf-30.5dBm-A-L21
380	512	110	1	120/240 Vac	S opt	RAMP-R-380-512M-1d-120/240V-110W-S opt-L21
380	512	110	5	120/240 Vac	S opt	RAMP-R-380-512M-5d-120/240V-110W-S opt-L21
380	512	300	10	120/240 Vac	S opt	RAMP-R-380-512M-10d-120/240V-110W-S opt-L21
400	1000	120	50	120/240 Vac	AB	RAMP-R-400-1000M-50d-120V-120W-AB-L21
450	470	75	10	120/240 Vac	AB	RAMP-R-450-470M-10d-120V-Nf-75W-A-L21
470	860	25	40	120/240 Vac	A	RAMP-R-470-860M-40d-120/240V-25W-A-L21
470	860	25	40	120/240 Vac	AB	RAMP-R-470-860M-40d-120/240V-25W-AB-L21
500	2000	100	45	120/240 Vac	AB	RAMP-R-500-2000M-45d-120/240V-Sf-Nf-100W-AB-L21
699	960	350	50	120/240 Vac	AB	RAMP-R-699-960M-50d-120V-Nf-350W-AB-L21
700	2700	50	45	120/240 Vac	AB	RAMP-R-700-2700M-45d-120/240V-Nf-50W-AB-L21
806	960	80	1	120/240 Vac	S opt	RAMP-R-806-960M-1d-120/240V-80W-S opt-L21
806	960	80	5	120/240 Vac	S opt	RAMP-R-806-960M-5d-120/240V-80W-S opt-L21
806	960	80	10	120/240 Vac	S opt	RAMP-R-806-960M-10d-120/240V-80W-S opt-L21
806	960	125	1	120/240 Vac	S opt	RAMP-R-806-960M-1d-120/240V-125W-S opt-L21
806	960	125	5	120/240 Vac	S opt	RAMP-R-806-960M-5d-120/240V-125W-S opt-L21
806	960	125	10	120/240 Vac	S opt	RAMP-R-806-960M-10d-120/240V-125W-S opt-L21
806	960	250	1	120/240 Vac	S opt	RAMP-R-806-960M-1d-120/240V-250W-S opt-L21
806	960	250	10	120/240 Vac	S opt	RAMP-R-806-960M-10d-120/240V-250W-S opt-L21
850	2150	100	45	120/240 Vac	AB	RAMP-R-850-2150M-45d-120/240V-Nf-100W-AB-L21
850	2150	200	50	120/240 Vac	AB	RAMP-R-850-2150M-50d-120/240V-Nf-200W-AB-L21
900	1100	100	50	120/240 Vac	AB	RAMP-R-900-1100M-50d-120/240VV-Sf-100W-AB-L21
1000	2000	35	45	120/240 Vac	AB	RAMP-R-1000-2000M-45d-120/240V-Sf-35W-AB-L21
1000	2600	10	40	120/240 Vac	A	RAMP-R-1000-2600M-40d-120/240V-10W-A-L21
1000	2600	30	40	120/240 Vac	AB	RAMP-R-1000-2600M-40d-120/240V-30W-AB-L21
1000	6000	200	50	120/240 Vac	AB	RAMP-R-1000-6000M-50d-120/240V-Nf-200W-AB-L21
1700	2700	250	50	120/240 Vac	AB	RAMP-R-1700-2700M-50d-120/240V-Nf-250W-AB-L21
2000	1800	1	33	120/240 Vac	AB	RAMP-R-2.0-18.0G-33d-120/240V-Sf-1W-AB-L21
2000	4000	50	40	120/240 Vac	A	RAMP-R-2.0-4.0G-40d-120-240V-Sf-50W-A-L21
2000	4000	50	40	120/240 Vac	AB	RAMP-R-2.0-4.0G-40d-120-240V-Sf-50W-AB-L21
2000	4000	50	47	120/240 Vac	AB	RAMP-R-2.0-4.0G-47d-120/240V-Sf-50W-AB-L21
2000	6000	2	40	120/240 Vac	A	RAMP-R-2.0-6.0G-40d-120/240V-2W-A-L21



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2000	6000	5	40	120/240 Vac	AB	RAMP-R-2.0-6.0G-40d-120/240V-5W-AB-L21
2000	6000	35	46	120/240 Vac	AB	RAMP-R-2.0-6.0G-46d-120/240V-Sf-35W-AB-L21
2700	3100	100	50	48VDC	AB	RAMP-R-2.7-3.1G-50d-48V-Nf-100W-AB-L21
2900	3300	120	50	120/240 Vac	AB	RAMP-R-2.9-3.3G-50d-AC-Nf-120W-1.2KW-Pk-AB -L21
3000	3500	100	50	120/240 Vac	AB	RAMP-R-3.0-3.3G-50d-120/240V-Nf-100W-AB -L21
6000	8000	200	50	120/240 Vac	AB	RAMP-R-6.0-8.0G-50d-120/240V-Nf-200W-AB-L21
6000	18000	20	45	120/240 Vac	AB	RAMP-R-6.0-18.0G-45d-120/240V-Sf-20W-AB-L21
7000	10000	5	50	120/240 Vac	AB	RAMP-R-7.0-10.0G-50d-120/240V-Nf-5W-AB-L21
10000	18000	10	40	120/240 Vac	AB	RAMP-R-10.0-18.0G-40d-120/240V-Nf-10W-AB-L21