



R&K Company Limited

R&K Broadband RF Power Amplifier

- R&K is one of the world's leading manufactures which can supply Broadband Solid State Power Amplifier
- Quite broad frequency range, these line-ups are appropriate for various application



- Frequency Range : 9kHz~6GHz
- Output Power Range : 5W~12kW

Applications

- EMC
 - Accelerator
 - Mobile Communication
 - NMR / ESR / MRI
 - Plasma Generator / RF Heating
 - Wireless Power Transmission
 - Measuring Equipment
- etc...

Characteristics

- All-Solid-State
- A or AB Class operation
- High Linearity
- Low Harmonics
- Low Distortion
- Both CW and Pulse are available
- High durability against load mis-matching

Technology

- Amplifiers are manufactured in "Building Block Construction" with multiple amplifier units.

It keeps extensibility of output power by adding amplifier units

- Radial Combiner Method with in-house-made combiner

Compare to multistage combine method, our Radial Combiner method can combine RF signals with lower insertion loss and higher efficiency.

Also, heat dissipation distribution got equalized. So, equipment became lower temperature and higher reliable.

- Operation is monitored by proprietary technology "R&K Multi Monitoring System"

Voltage, current, temperature, output power, reflection power, and other amplifiers' parameters are monitored and saved in chronological order per each device or module. When needed, protection or alarm function is operated. In the case of fault, prompt investigation and diagnosis will be performed. Fault condition can be quickly recovered by exchanging units.

Series Line Up

Series	Frequency	Output Power
A009K251	9kHz~250MHz	25W~12kW
A009K401	9kHz~400MHz	25W~500W
A501K501	500kHz~500MHz	25W~200W
A001M102	1MHz~1GHz	10W~100W
A080M102	80MHz~1GHz	75W~4kW
A501M272	500MHz~2.7GHz	5W~120W

Series	Frequency	Output Power
A801M202	800MHz~2GHz	10W~2kW
GA102M252	1GHz~2.5GHz	50W~2kW
A202M402	2GHz~4GHz	10W~50W
GA701M402	700MHz~4GHz	5W~800W
GA701M602	700MHz~6GHz	10W~200W
GA252M602	2.5GHz~6GHz	10W~300W

All Solid State Broadband RF Power Amplifiers

■A009K251 Series 9kHz~250MHz



Model : A009K251-5757R

MODEL	Frequency	P1dB	P3dB or Psat.
A009K251-4444R	9kHz~250MHz	25W	
A009K251-5050R	9kHz~250MHz	100W	120W
A009K251-5454R	9kHz~250MHz	200W	250W
A009K251-5757R	9kHz~254MHz	450W	500W
A009K251-6060R	9kHz~250MHz	700W	1kW
A010K251-6464R	10kHz~250MHz	2kW~1.2kW	2.5kW~1.9kW
A010K221-6767R	10kHz~225MHz	3.4kW~2kW	5kW~3.5kW
A010K221-7070R	10kHz~225MHz	7kW~4kW	10kW~6kW
A010K221-7070RW	10kHz~225MHz	7kW~4kW	10kW~6kW
A010K221-7171R	10kHz~225MHz	12kW~6kW	
A010K251-5050R	100kHz~250MHz	100W	

■A009K401 Series 9kHz~400MHz



Model : A009K401-5656R

MODEL	Frequency	P1dB	P3dB or Psat.
A009K401-4444R	9kHz~400MHz	25W	
A009K401-4848R	9kHz~400MHz	60W	
A009K401-5050R	9kHz~400MHz	100W	
A009K401-5353R	9kHz~400MHz	200W	
A009K401-5656R	9kHz~400MHz	500W	

■A501K501 Series 500kHz~500MHz



Model : A501K501-5353R

MODEL	Frequency	P1dB	P3dB or Psat.
A501K501-4444R	500kHz~500MHz	25W	
A501K501-4848R	500kHz~500MHz	60W	
A501K501-5050R	500kHz~500MHz	100W	
A501K501-5353R	500kHz~500MHz	200W	

■A001M102 Series 1MHz~1GHz



Model : A001M102-4747R

MODEL	Frequency	P1dB	P3dB or Psat.
A030K102-3040R	30kHz~1GHz	10W	
A000110-4040-R	1MHz~1GHz	10W	
A00110-4040-R	10MHz~1GHz	10W	
A020M102-4343R	20MHz~1GHz	20W	
A001M102-4747R	1MHz~1GHz	50W	
A001M102-5050R	1MHz~1GHz	100W	

■A080M102 Series 80MHz~1GHz



Model : A080M102-6262R

MODEL	Frequency	P1dB	P3dB or Psat.
A080M102-4949R	80MHz~1GHz	75W	100W
A080M102-5252R	80MHz~1GHz	150W	
A080M102-5454R	80MHz~1GHz	250W	300W
A080M102-5757R	80MHz~1GHz	500W	600W
A080M102-6060R	80MHz~1GHz	1kW	
A080M102-6262R	80MHz~1GHz	1.5kW	

■A501M272 Series 500MHz~2.7GHz



Model : A501M272-4747R

MODEL	Frequency	P1dB	P3dB or Psat.
A501M272-3737R	500MHz~2.7GHz	5W	
A501M272-4040R	500MHz~2.7GHz	10W	
A501M272-4343R	500MHz~2.7GHz	20W	
A501M272-4747R	500MHz~2.7GHz	50W	
A501M272-5151R	500MHz~2.7GHz	120W	

■A801M202 Series 800MHz~2GHz



Model : A801M202-5050R

MODEL	Frequency	P1dB	P3dB or Psat.
A801M202-4040R	800MHz~2GHz	10W	
A801M202-4343R	800MHz~2GHz	20W	
A801M202-4747R	800MHz~2GHz	50W	
A801M202-5050R	800MHz~2GHz	100W	
A801M202-5353R	800MHz~2GHz	200W	
A102M202-5858R	1GHz~2GHz	500W	600W

■GA102M252 Series 1GHz~2.5GHz



Model : GA102M252-5454R

MODEL	Frequency	P1dB	P3dB or Psat.
GA102M252-4747R	1GHz~2.5GHz	50W	
GA102M252-5050R	1GHz~2.5GHz	100W	
GA102M252-5252R	1GHz~2.5GHz	150W	
GA102M252-5353R	1GHz~2.5GHz	200W	
GA102M252-5454R	1GHz~2.5GHz	250W	
GA0827-4552-R	800MHz~2.7GHz		150W
GA0827-4754-R	800MHz~2.7GHz		250W
GA701M282-4850R-LCA	700MHz~2.8GHz	80W	100W

■A202M402 Series 2GHz~4GHz



Model : A202M402-4747R

MODEL	Frequency	P1dB	P3dB or Psat.
A202M402-4040R	2GHz~4GHz	10W	
A202M402-4343R	2GHz~4GHz	20W	
A202M402-4747R	2GHz~4GHz	50W	

■GA701M402 Series 700MHz~4GHz



Model : GA801M402-5959R

MODEL	Frequency	P1dB	P3dB or Psat.
A801M422-3737R	800MHz~4.2GHz	5W	
A801M402-4040R	800MHz~4GHz	10W	
GA701M402-4444R	700MHz~4GHz	25W	
GA701M402-4747R	700MHz~4GHz	50W	
GA701M402-5050R	700MHz~4GHz	100W	
GA801M402-5555R	800MHz~4GHz	200W	300W
GA801M402-5656R	800MHz~4GHz	400W	
GA801M402-5757R	800MHz~4GHz	500W	
GA801M402-5959R	800MHz~4GHz	600W	800W

■GA701M602 Series 700MHz~6GHz



Model : GA701M602-5350R

MODEL	Frequency	P1dB	P3dB or Psat.
GA701M602-4040R	700MHz~6GHz	10W	
GA701M602-5047R	700MHz~6GHz	25W	50W
GA701M602-5350R	700MHz~6GHz	50W	100W
GA102M602-5653R	1GHz~6GHz	100W	200W

■GA252M602 Series 2.5GHz~6GHz



Model : GA252M602-5454R

MODEL	Frequency	P1dB	P3dB or Psat.
GA252M602-4040R	2.5GHz~6GHz	10W	
GA252M602-4444R	2.5GHz~6GHz	20W	25W
GA252M602-4747R	2.5GHz~6GHz	50W	
GA252M602-5050R	2.5GHz~6GHz	100W	
GA252M602-5252R	2.5GHz~6GHz	150W	
GA252M602-5353R	2.5GHz~6GHz	200W	
GA252M602-5454R	2.5GHz~6GHz	250W	
GA252M602-5555R	2.5GHz~6GHz	300W	



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