

# RF POWER AMPLIFIER

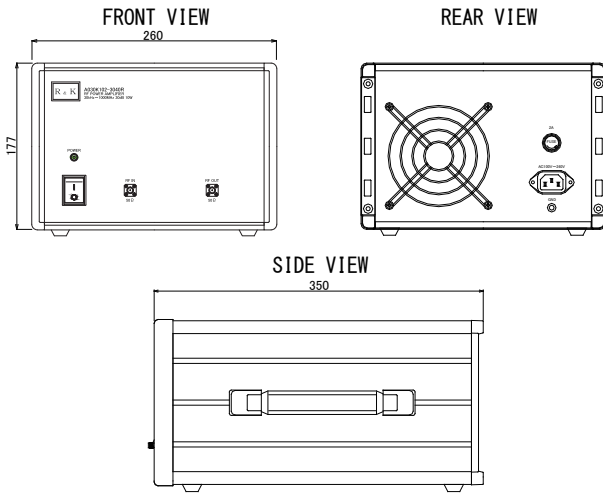


## R&K-A030K102-3040R



### OUTLINE DRAWING

※IN MILLIMETERS



- Class A Linear Solid-State Amplifier
- Broadband Frequency: 30kHz~1000MHz
- Output Power (CW) : 10W (min.) @1dB Comp.

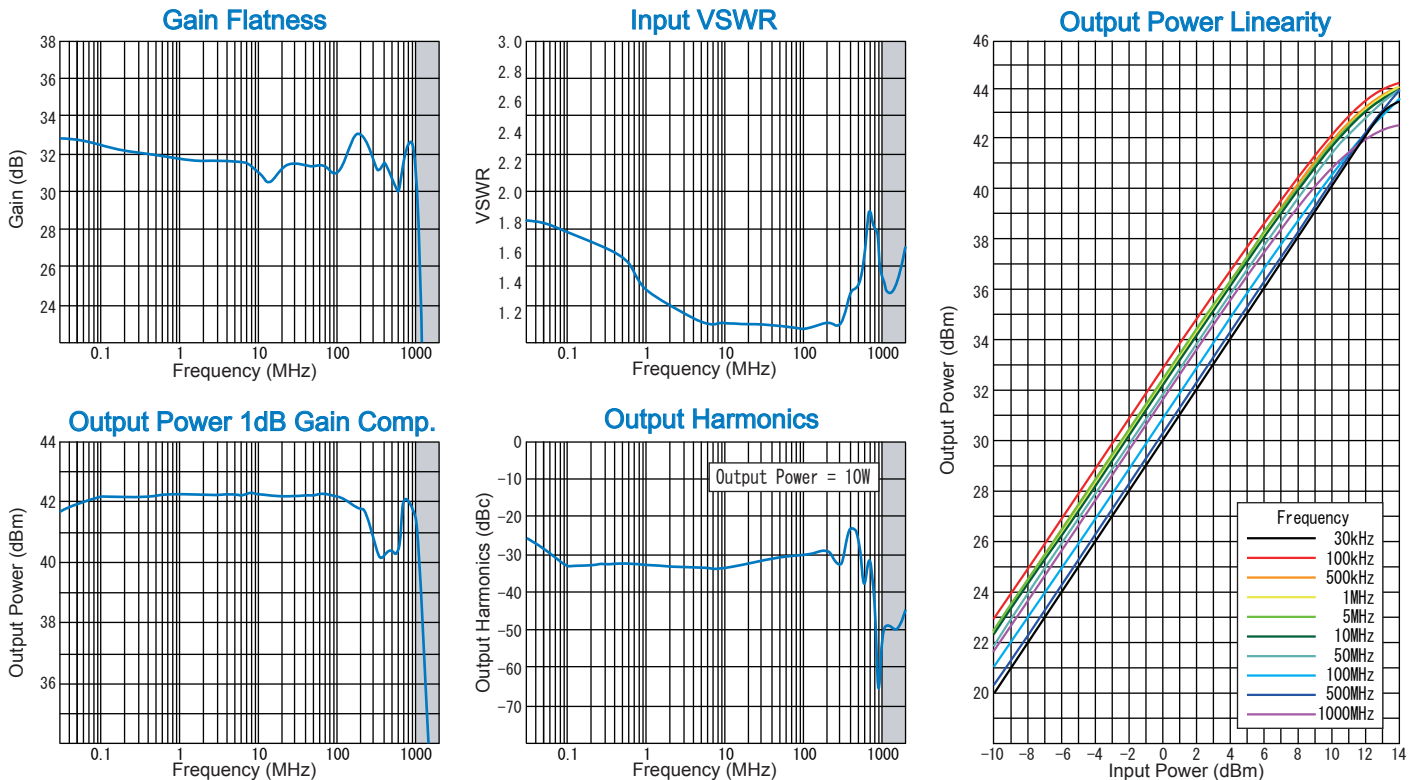
### APPLICATION

- EMC(Electromagnetic Compatibility)
- Accelerator Application
- Telecommunication Test and Measurement Application
- Etc...

### SPECIFICATIONS @ +25°C

Frequency Range	: 30kHz ~ 1000MHz
Small Signal Gain	: +30.0dB (typ.) : +28.0dB (min.)
Gain Flatness	: ±2.0dB (max.)
Output Power (CW)	: 10W (min.) @1dB Comp. $\Delta 1$
Operation Mode	: Class A
Output I.C.P	: +50.0dBm (typ.)
Noise Figure	: 10dB (typ.)
NOTE: N.F.value is only guaranteed in the range of 10MHz ~ 1000MHz	
Harmonics	: -18.0dBc (max.) @Po=10W
Spurious	: -60.0dBc (max.) @Po=10W
Impedance	: 50 $\Omega$
Input Return Loss	: 9.5dB (min.) / VSWR : 2.0 (max.)
Maximum RF Input Power	: +17dBm
AC Supply Input	: AC100V~240V / 1 $\phi$ , 50/60Hz, 200VA
Operating Temperature	: -10°C to +45°C
Storage Temperature	: -15°C to +65°C
Connectors	: RF - IN SMA - FEMALE RF - OUT SMA - FEMALE
Size	: (W)260mm×(D)350mm×(H)177mm(EIA:4U)
Weight	: 10.0kg (max.)
Cooling	: Forced Air Cooling
Protection Circuits	: Over Temperature Protection Power Supply Voltage Protection

### TYPICAL PERFORMANCE (Temp @+25°C)



\* CHANGE  $\Delta 1$  3/Dec./2018

R&K reserves the right to make changes in the specifications of or discontinue products at any time without notice. R&K products shall not be used for or in connection with equipment that requires an extremely high level of reliability and safety such as aerospace uses or medical life support equipment. Further, the export of R&K products from Japan may be subject to an export license by the government of Japan, based on Japan's "Foreign Exchange and Foreign Trade Law".

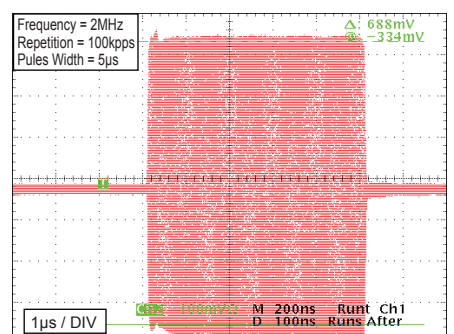
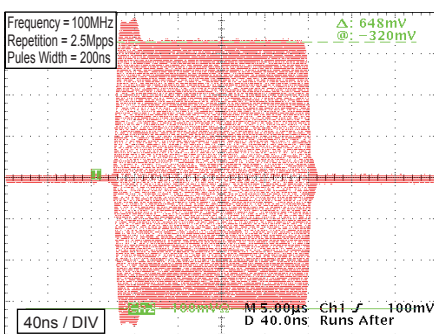
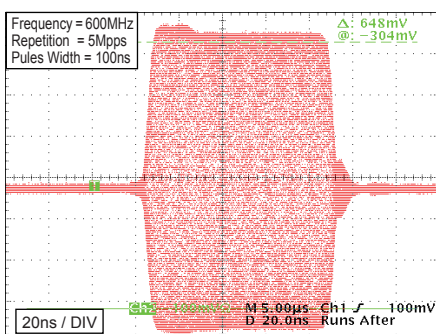
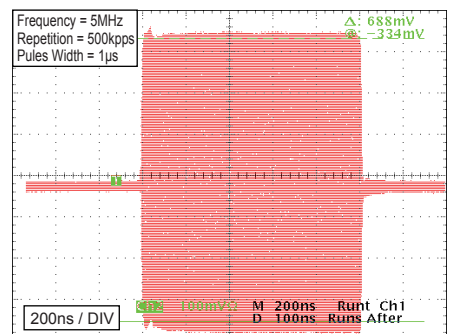
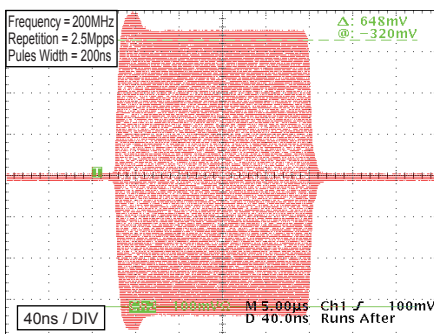
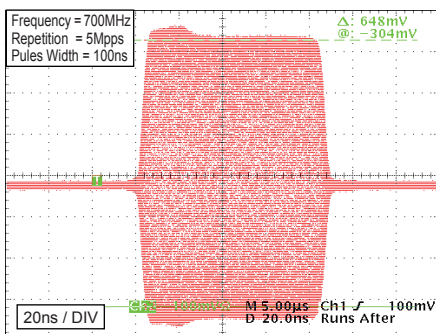
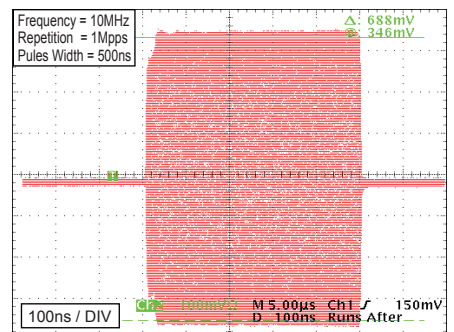
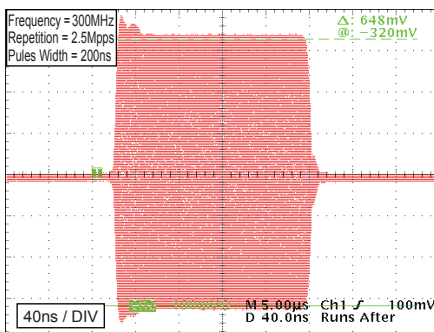
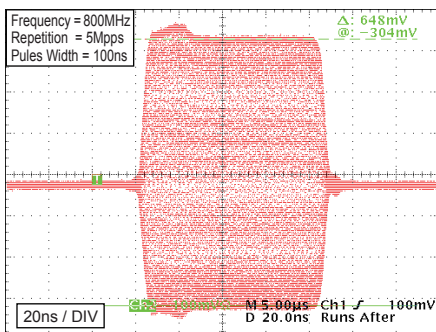
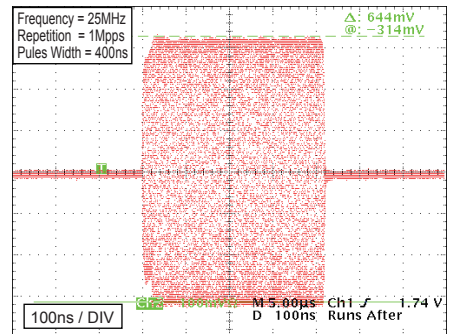
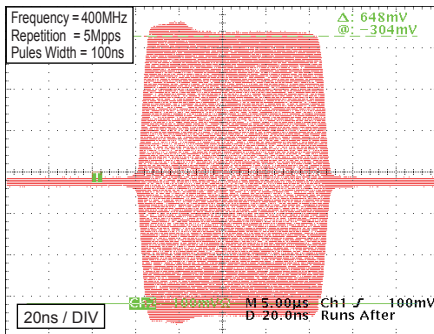
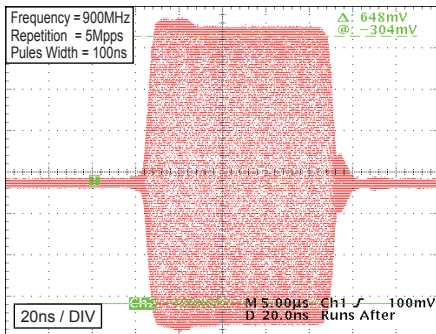
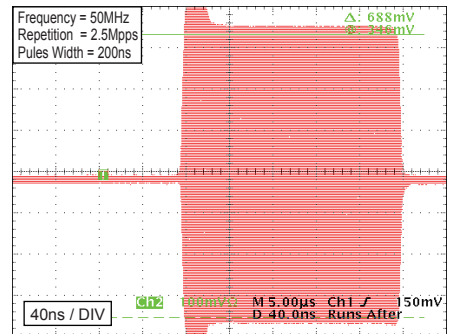
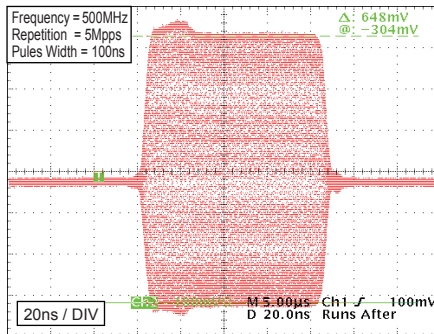
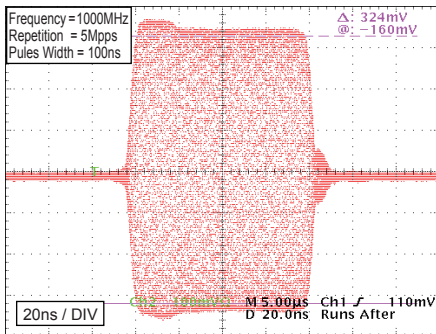
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## TYPICAL PERFORMANCE (Temp @+25°C)

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### Pulse Characteristics



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