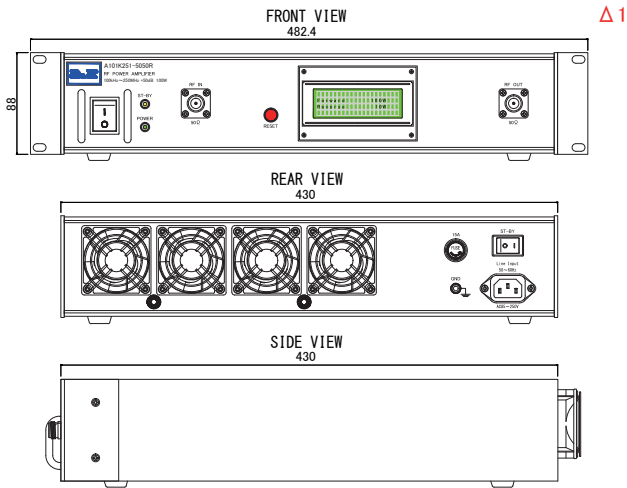


## R&K-A101K251-5050R



### OUTLINE DRAWING

※IN MILLIMETERS



- Small Size / Light Weight
- All Solid-State Amplifier
- Broadband Frequency: 100kHz ~ 250MHz
- Output Power (CW) : 100W @1dB Comp.

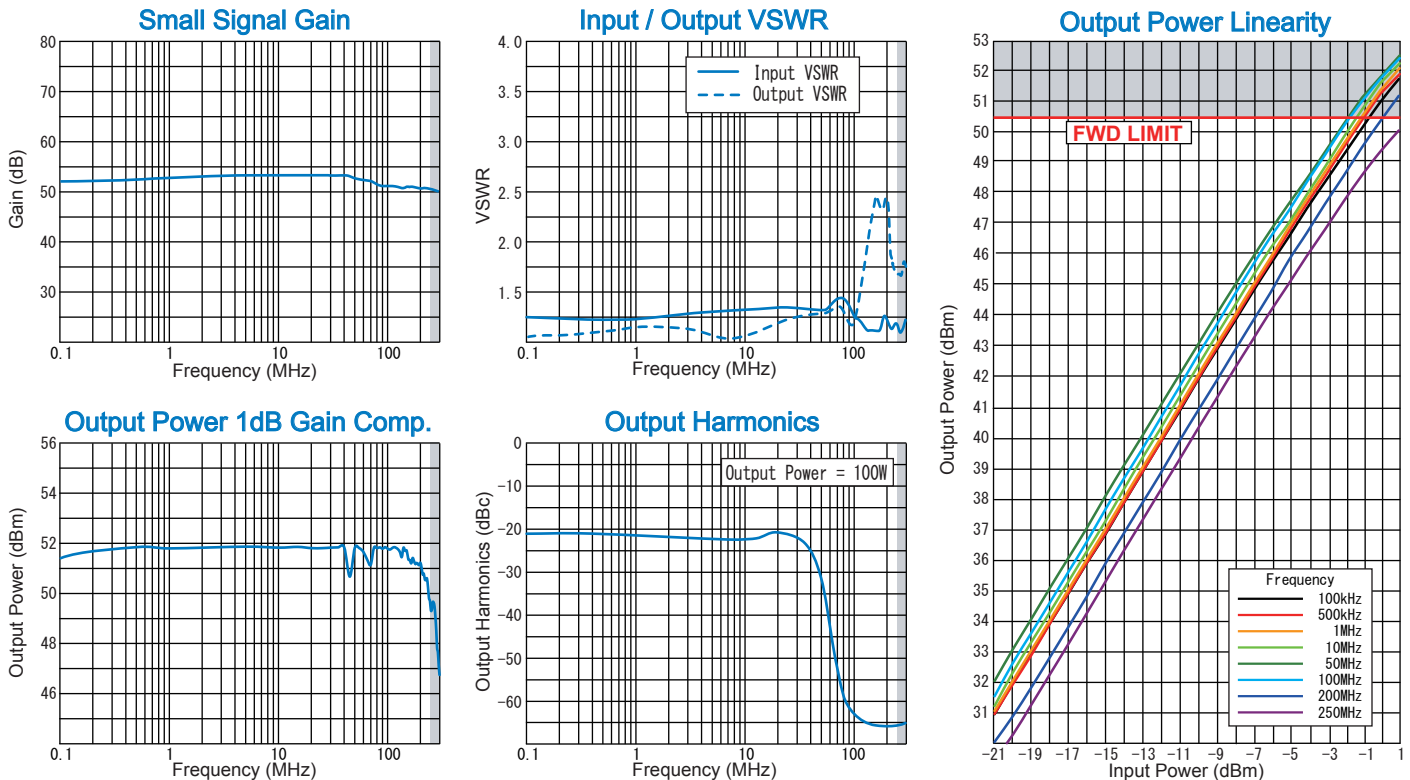
### APPLICATION

- Bunch by Bunch Feedback System for Synchrotron (Storage Ring)
- EMC(Electromagnetic Compatibility), etc.

### SPECIFICATIONS @ +25°C

Frequency Range	: 100kHz ~ 250MHz
Small Signal Gain	: +50.0dB (min.)
Gain Flatness	: ±1.5dB (max.)
Output Power (CW)	: 100W (typ.) @1dB Comp. 80W (min.) @1dB Comp.
Operation Mode	: Class A
Harmonics	: -20.0dBc (max.) @Po=100W
Spurious	: -70.0dBc (max.) @Po=100W
Impedance	: 50Ω
Input VSWR	: 2.0 (max.)
Output VSWR	: 3.0 (max.)
Maximum RF Input Power	: +3.0dBm
AC Supply Input	: AC85V ~ AC250V / 1φ, 50 / 60Hz, 600VA
Operating Temperature	: -10°C to +40°C
Storage Temperature	: -15°C to +55°C
Connectors	: RF - IN N - FEMALE RF - OUT N - FEMALE
Size	: (W)482.4mm × (D)430mm × (H)88mm(EIA:2U)
Weight	: 17kg (max.)
Cooling	: Forced Air Cooling
Protection	: Over Temperature Protection Power Supply Voltage Protection Output Over Power Protection Output Over Reflection Power Protection

### TYPICAL PERFORMANCE (Temp @+25°C)



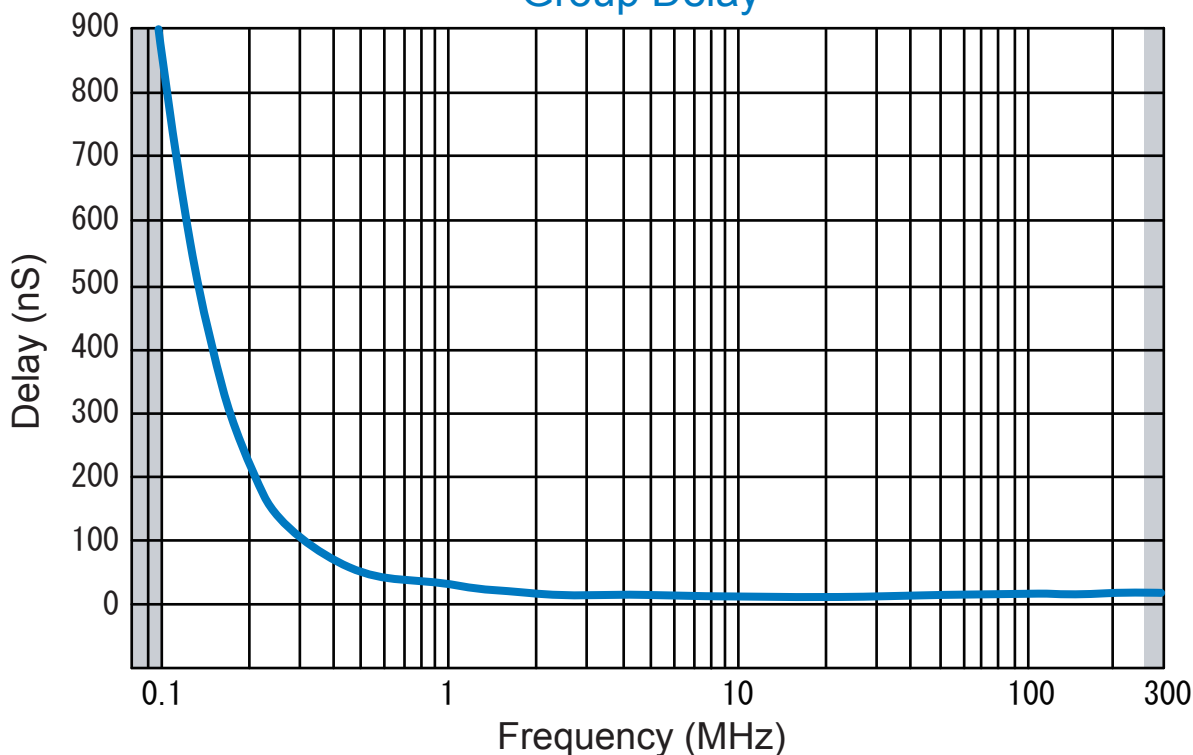
\* CHANGE Δ1 7/May/2018

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".

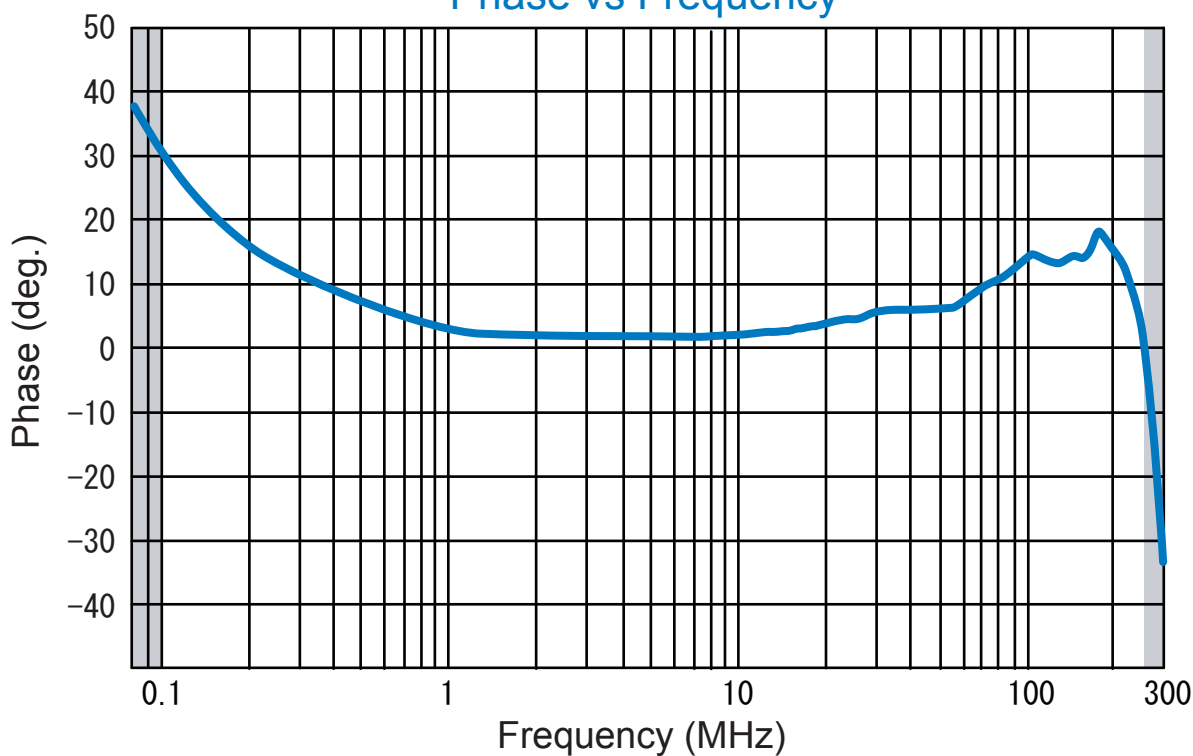
## R&K Company Limited

721-1 Maeda, Fuji-City, Shizuoka-Pref. 416-8577 Japan  
 Tel: +81-545-31-2600 E-mail: info@rkco.jp  
 Fax: +81-545-31-1600 URL: http://rk-microwave.com

### Group Delay



### Phase vs Frequency



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".

## R&K Company Limited

721-1 Maeda, Fuji-City, Shizuoka-Pref. 416-8577 Japan  
Tel : +81-545-31-2600 E-mail : info@rkco.jp  
Fax : +81-545-31-1600 URL : <http://rk-microwave.com>