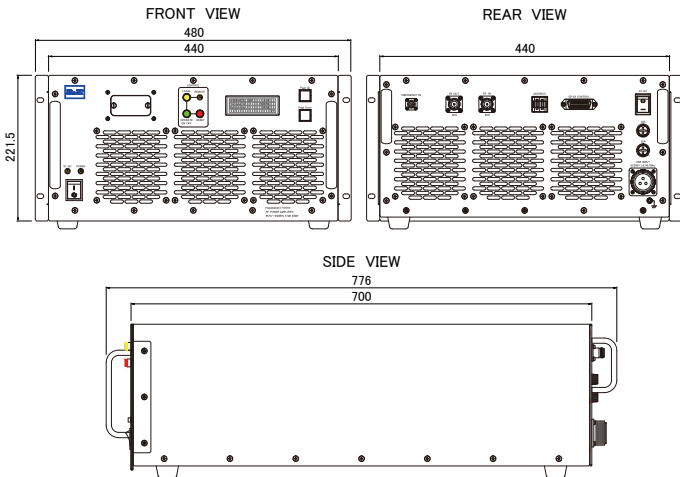


## FSA009K251-5757R



### OUTLINE DRAWING

※IN MILLIMETERS



### TYPICAL PERFORMANCE (Temp @+25°C)

- OPEN/SHORT tolerated 24 h/365 days continuous.
  - Virtually Unlimited Survival Time!
  - Even at Maximum Output Power!
- 9kHz~250MHz, 500W (min.) @3dB Comp.

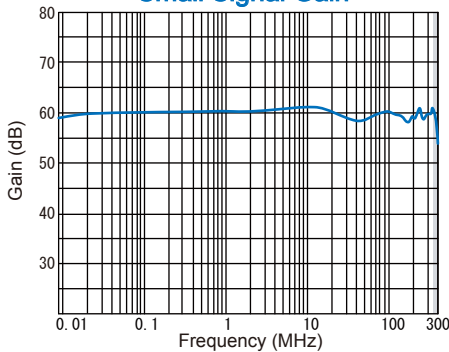
#### APPLICATION

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

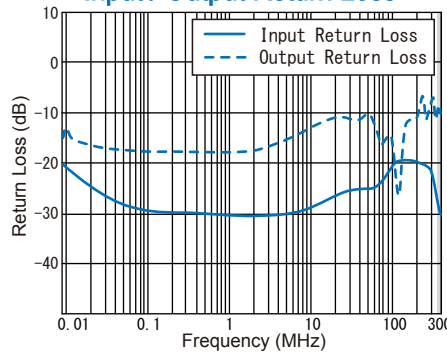
#### SPECIFICATIONS @ +25°C

Frequency Range	: 9kHz ~ 250MHz
Small Signal Gain	: +57.0dB (min.)
Gain Flatness	: ±2.0dB (max.)
Output Power (CW)	: 500W (min.) @3dB Comp.
	: 400W (min.) @1dB Comp.
Operation Mode	: Class A
Harmonics	: -20.0dBc (max.) @Po=350W
Spurious	: -70.0dBc (max.) @Po=350W
Impedance	: 50Ω
Input Return Loss	: 14.0dB (min.) / VSWR : 1.5 (max.)
Output Return Loss	: 6.0dB (min.) / VSWR : 3.0 (max.)
Maximum RF Input Power	: +3.0dBm
AC Supply Input	: AC200V±15%/1φ, 50/60Hz, 3.2kVA(max.)
Operating Temperature	: 0°C to +40°C
Storage Temperature	: -15°C to +65°C
Connectors	: RF - IN N - FEMALE @REAR PANEL RF - OUT N - FEMALE @REAR PANEL
Size	: (W)440mm×(D)700mm×(H)221.5mm(EIA:5U) *Excluding Projection
Weight	: 43.0kg (typ.)
Cooling	: Forced Air Cooling
Protection Circuits	: Over Temperature Protection Power Supply Voltage Protection Input Over Power Protection Output Over Power Protection(@550W) Output Over Reflected Power Protection(@500W)
Remote Interface	: [Standard] GPIB (IEEE-488) [Optional] Ethernet, RS-232C
Other Functions	: R&K FSA Circuits R&K Multi Monitoring System Safety Interlock(EMERGENCY)

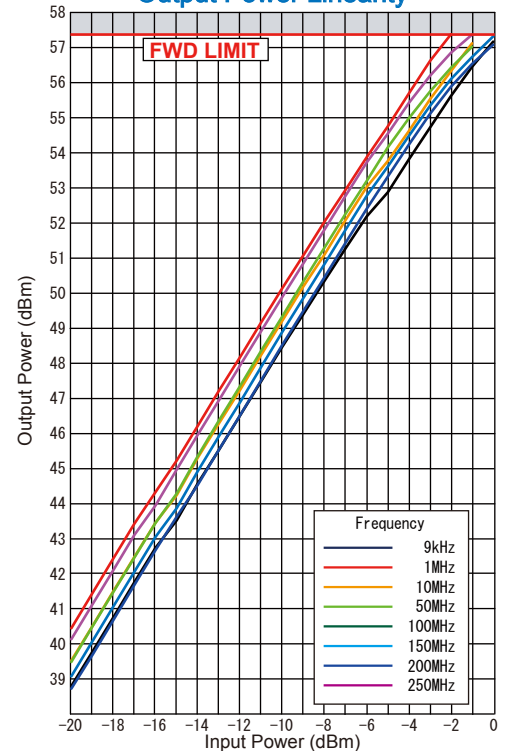
Small Signal Gain



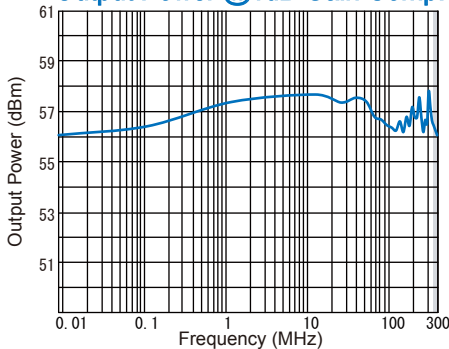
Input / Output Return Loss



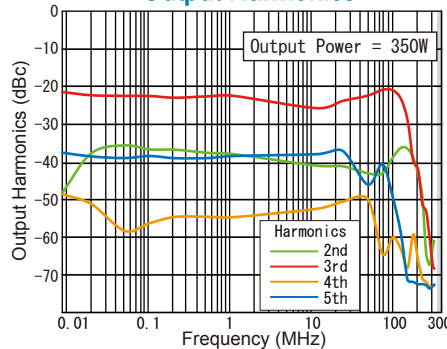
Output Power Linearity



Output Power @1dB Gain Comp.



Output Harmonics



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".

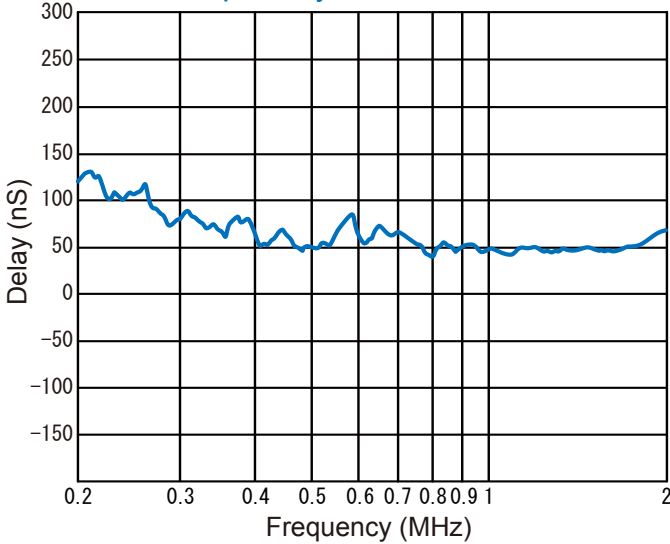
## R&K Company Limited

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

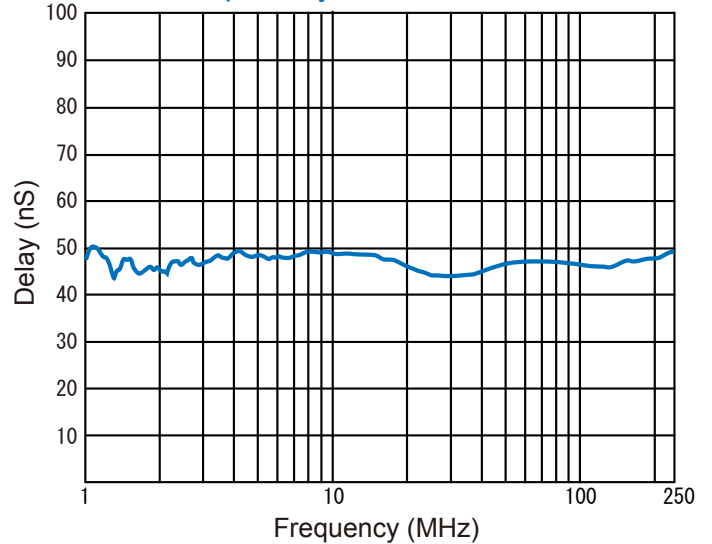
TYPICAL PERFORMANCE (Temp @+25°C)

Model:FSA009K251-5757R

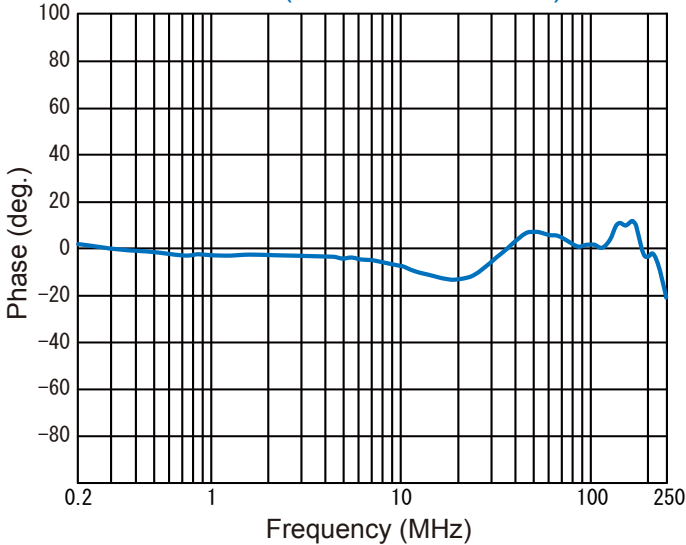
Group Delay (200kHz~2MHz)



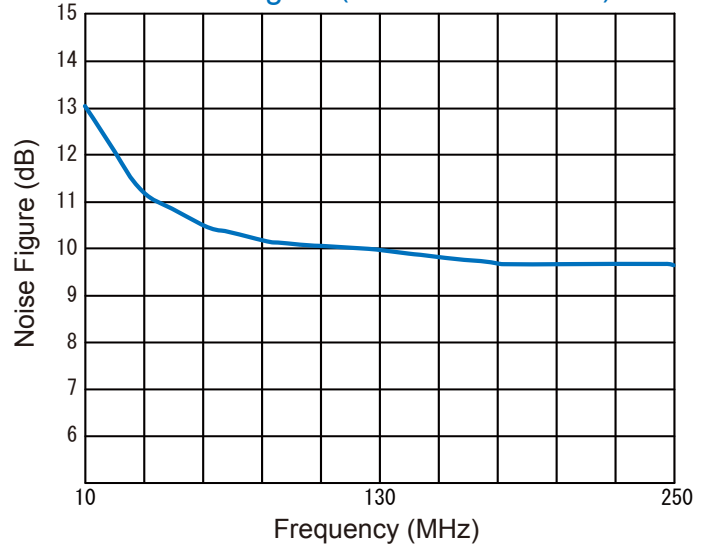
Group Delay (1MHz~250MHz)



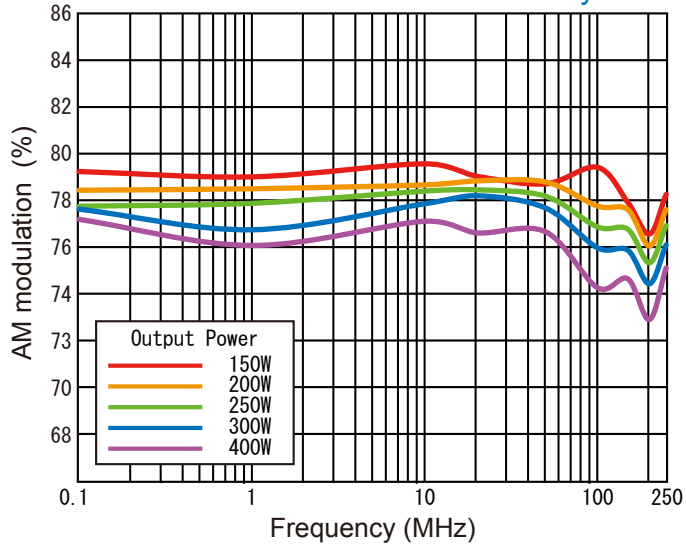
Phase (200kHz~250MHz)



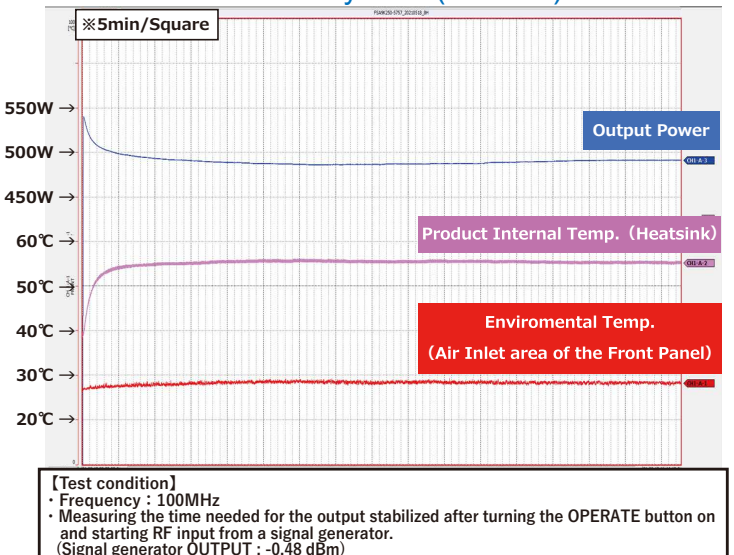
Noise Figure (10MHz~250MHz)



AM modulation 80% followability



Stability Test (8 hours)



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