

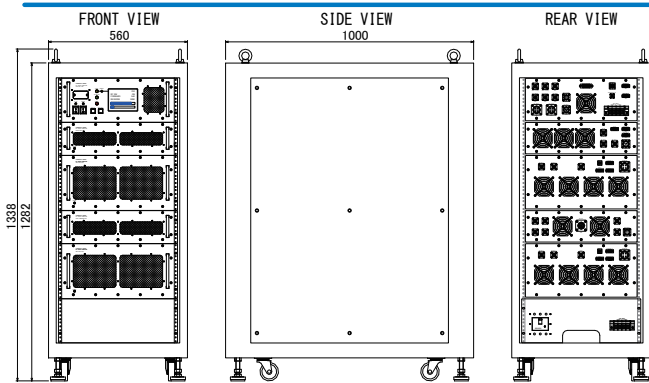
RF POWER AMPLIFIER



R&K-A080M102-6060R



OUTLINE DRAWING ※IN MILLIMETERS



TYPICAL PERFORMANCE (Temp @+25°C)

- Class A Linear Solid-State Amplifier
- Broadband Frequency: 80MHz~1000MHz
- Output Power (CW) : 1kW (typ.) @1dB Comp.
- Building-block Construction Design

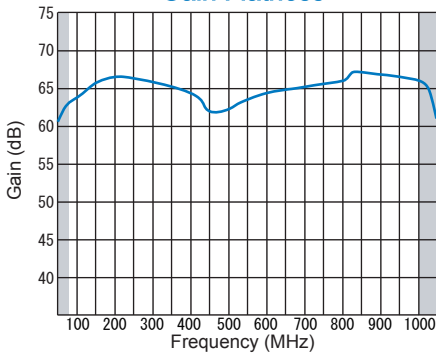
APPLICATION

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

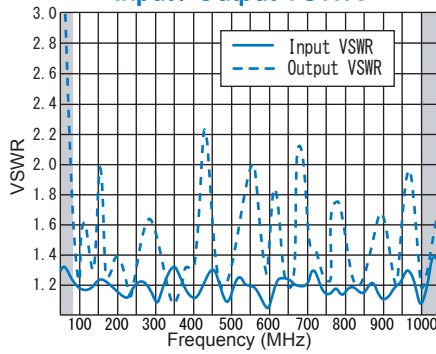
SPECIFICATIONS @ +25°C

| | |
|--------------------------|--|
| Frequency Range | : 80MHz ~ 1000MHz |
| Small Signal Gain | : +60.0dB (min.) |
| Gain Flatness | : ±3.0dB (max.) |
| Output Power (CW) | |
| 80MHz~ 90MHz | : 1kW (min.) @3dB Comp. |
| 80MHz~ 90MHz | : 850W (min.) @1dB Comp. |
| 90MHz~1000MHz | : 1kW (min.) @1dB Comp. |
| Operation Mode | : Class A |
| Output I.C.P. | : +70.0dBm (typ.) |
| Harmonics @90MHz~1000MHz | : -20.0dBc (max.) @Po=1kW |
| Spurious | : -70.0dBc (max.) @Po=1kW |
| Impedance | : 50Ω |
| Input VSWR | : 2.0 (max.) |
| Output VSWR | : 2.5 (typ.) Δ 1 |
| Maximum RF Input Power | : +3.0dBm |
| AC Supply Input | : AC200V±15%/3φ, 50/60Hz, 15kVA |
| Operating Temperature | : 0°C to +35°C |
| Storage Temperature | : -15°C to +55°C |
| Connectors | : RF-IN N-FEMALE @REAR PANEL RF-OUT 7/16-FEMALE @REAR PANEL |
| Size | : (W)560mm×(D)1000mm×(H)1282mm (Excluding Projection) |
| Weight | : 305.0kg (typ.) Δ 1 |
| Cooling | : Forced Air Cooling |
| Protection Circuits | : Over Temperature Protection Power Supply Voltage Protection Output Over Power Protection Output Over Reflected Power Protection |
| Other Functions | : R&K Multi Monitoring System GP-IB (IEEE-488) Safety Interlock (EMERGENCY) |

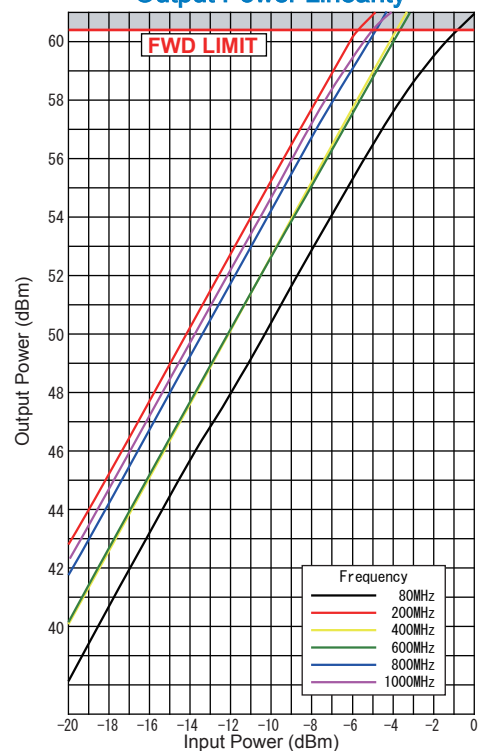
Gain Flatness



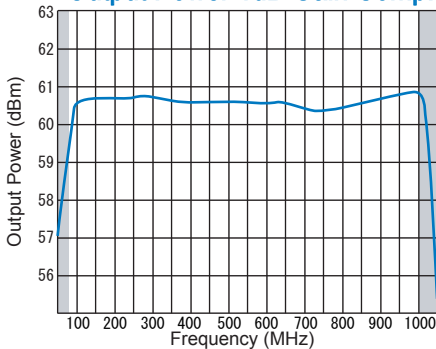
Input / Output VSWR



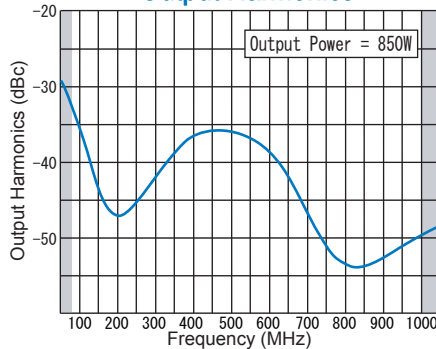
Output Power Linearity



Output Power 1dB Gain Comp.



Output Harmonics



* CHANGE Δ 1 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, R&K cannot export products to any country for use in military or defense applications.

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