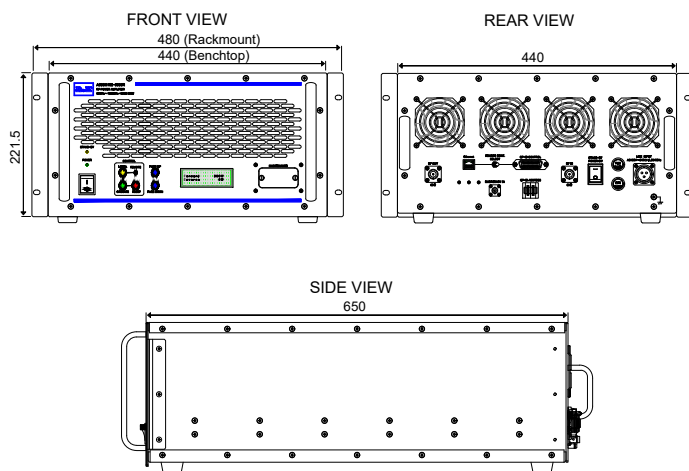


A080M102-5555R



OUTLINE DRAWING

※IN MILLIMETERS



TYPICAL PERFORMANCE (Temp @ +25°C)

- Class A Linear Solid-State Amplifier
- Broadband Frequency: 80MHz-1000MHz
- Output Power (CW) : 300W (min.) @P3dB

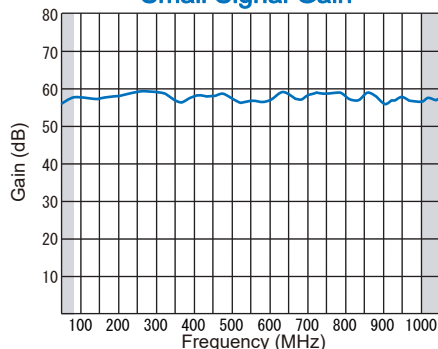
APPLICATIONS

- EMC (Electromagnetic Compatibility)
- Particle Accelerators
- Telecommunication Test and Measurement
- Etc...

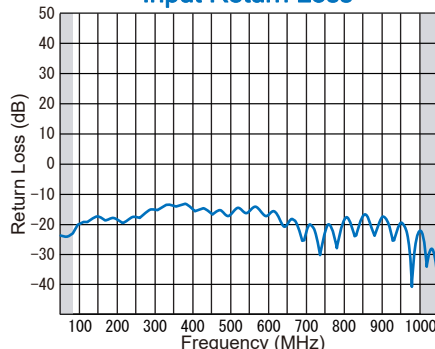
SPECIFICATIONS @ +25°C

Frequency Range	: 80MHz - 1000MHz
Small Signal Gain	: +55 dB (typ.), +53 dB (min.)
Gain Flatness	: ±3dB (max.)
Output Power (CW)	: 300W @Rated Output Power 300W (min.) @3dB Compression 250W (min.) @1dB Compression
Operation Mode	: Class A
Harmonics	: -20 dBc (max.) @Po=250W
Spurious	: -70 dBc (max.) @Po=250W
Impedance	: 50Ω
Input Return Loss	: 9.5dB (min.) / VSWR 2.0:1 (max.)
Output Return Loss	: 6dB (typ.) / VSWR 3.0:1 (typ.)
Maximum RF Input Power	: +3 dBm
AC Supply Input	: Single-phase 180 - 240 VAC, 50/60Hz, 2.4kVA
Operating Temperature	: 0°C to +35°C
Storage Temperature	: -15°C to +65°C
Connectors	: RF - IN N - FEMALE @REAR RF - OUT N - FEMALE @REAR
Size	: (W)440mm×(D)650mm×(H)221.5mm (EIA: 5U) *Excluding Projection
Weight	: 37.5kg (typ.)
Cooling	: Forced Air Cooling
Protection Circuits	: Over Temperature Protection Power Supply Protection Current Protection Voltage Protection Forward Over Protection (@315W) Reflected Over Protection (@150W)
Remote Interface	: Ethernet(telnet) & GPIB (IEEE-488)
Other Functions	: R&K Multi Monitoring System Interlock (Emergency Stop)

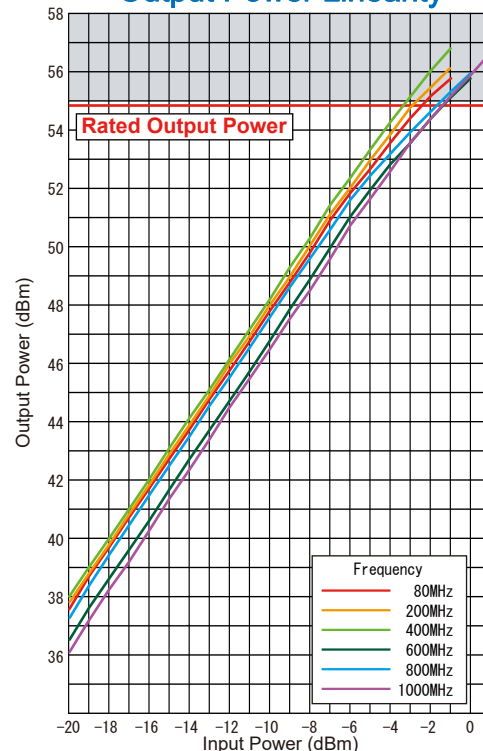
Small Signal Gain



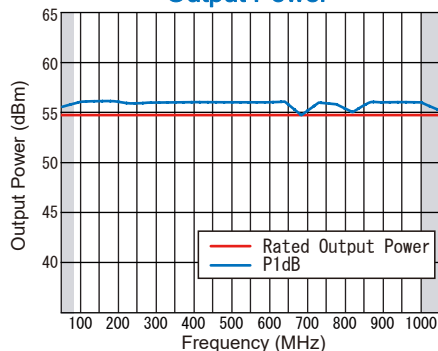
Input Return Loss



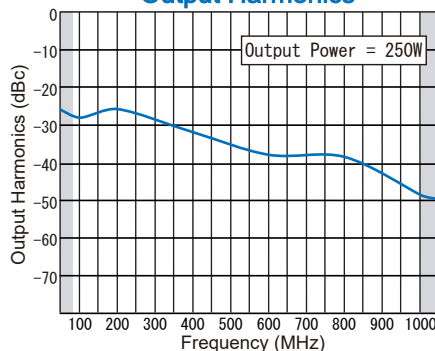
Output Power Linearity



Output Power



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: https://rk-microwave.com