

RF POWER AMPLIFIER



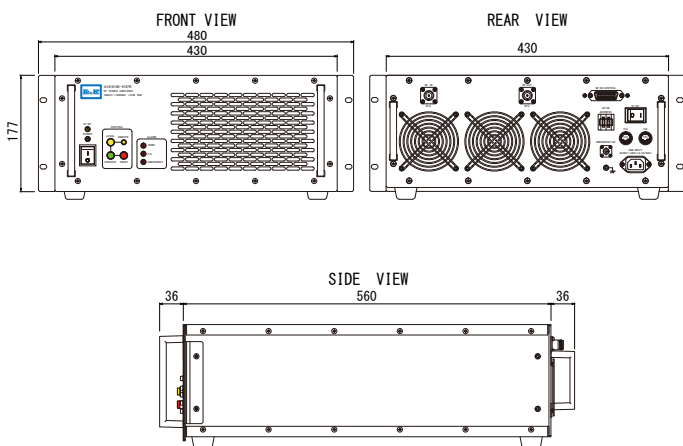
2020 Model

R&K-A101K102-4747R



OUTLINE DRAWING

※IN MILLIMETERS



- Class A Linear Solid-State Amplifier
- Broadband Frequency: 100kHz~1000MHz
- Output Power (CW) : 50W (typ.) @3dB Comp.

APPLICATION

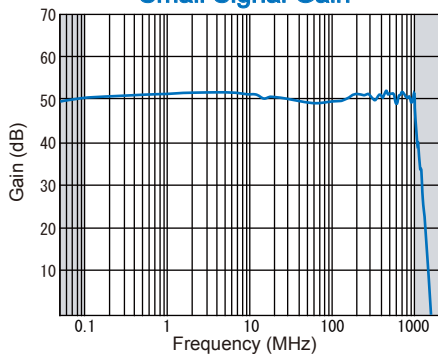
- EMC(Electromagnetic Compatibility)
- Accelerator Application
- Telecommunication Test and Measurement Application
- Etc...

SPECIFICATIONS @ +25°C

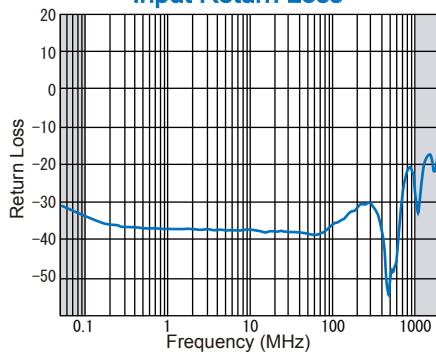
Frequency Range	: 100kHz ~ 1000MHz
Small Signal Gain	: +47.0dB (min.)
Gain Flatness	: ±3.0dB (max.)
Output Power (CW)	: 35W (typ.), 25W (min.) @1dB Comp. 50W (typ.), 40W (min.) @3dB Comp.
Harmonics	: -20.0dBc (max.) @Po=30W
Spurious	: -70.0dBc (max.) @Po=50W
Impedance	: 50 Ω
Input Return Loss	: 14.0dB (min.) / VSWR : 1.5 (max.)
Maximum RF Input Power:	+3dBm
AC Supply Input	: AC90V~240V / 1 φ, 50 / 60Hz, 800VA
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)430mm×(D)560mm×(H)177mm(EIA:4U) *Excluding Projection
Weight	: 20.5kg (typ.)
Cooling	: Forced Air Cooling
Protection Circuits	: Over Temperature Protection Power Supply Voltage Protection
Remote Interface	: [Standard] GP-IB (IEEE-488) [Optional] Ethernet, RS-232C
Other Function	: Safety Interlock(EMERGENCY)

TYPICAL PERFORMANCE (Temp @+25°C)

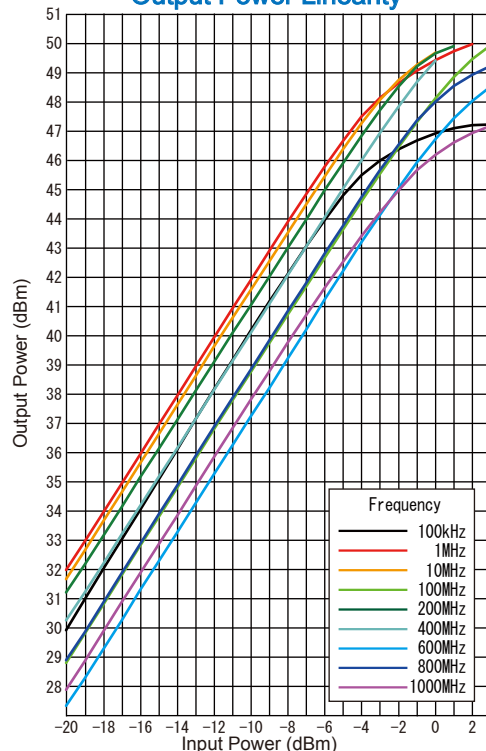
Small Signal Gain



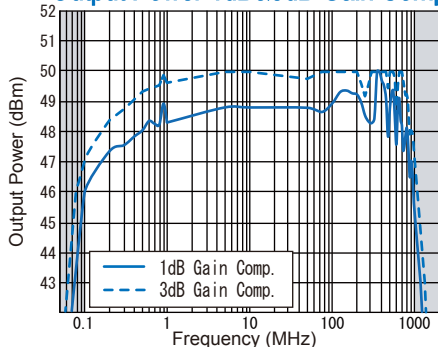
Input Return Loss



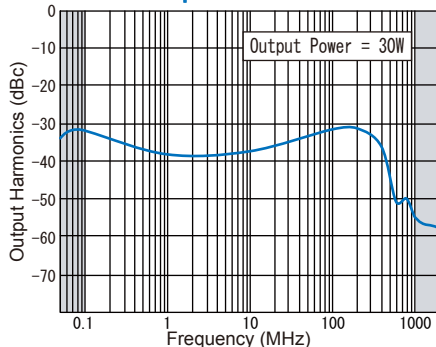
Output Power Linearity



Output Power 1dB&3dB Gain Comp.



Output Harmonics



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