

RF POWER AMPLIFIER

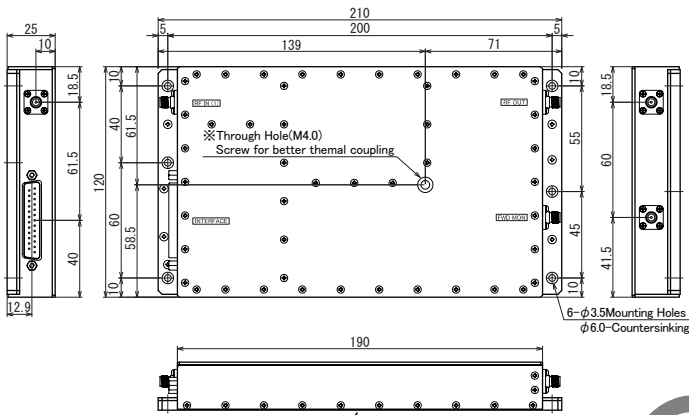


R&K-GA681M971-5050M



OUTLINE DRAWING

※IN MILLIMETERS



- Broadband Frequency : 680MHz ~ 970MHz
- Output Power : 100W (min.) @Psat.
- In-band Gain : +50.0dB (min.)
- RoHS Compliant ■ GaN DEVICE

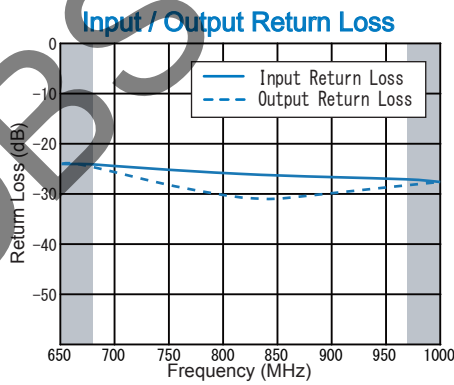
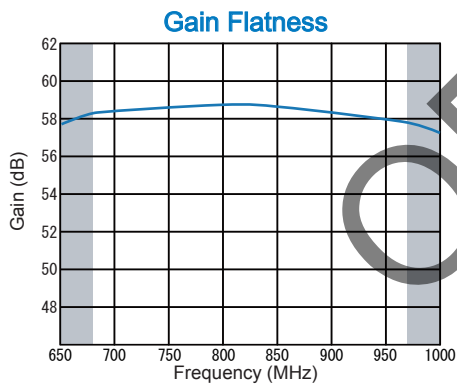
SPECIFICATIONS @ +25°C

Frequency Range	: 680MHz ~ 970MHz
In-band Gain	: +50.0dB (min.)
Output Power	: 100W (min.) @Psat.
Impedance	: 50Ω
Operation Mode	: Class AB
Harmonics	: -30.0dBc (max.) @Po=100W
Spurious	: -60.0dBc (max.) @Po=100W
Input Return Loss	: -18.0dB (max.)
Output Return Loss	: -18.0dB (max.)
FWD Monitor Return Loss	: -18.0dB (max.)
FWD Monitor Coupling	: -39.0dB ± 2.0dB
Output I.C.P.	: +45.0dBm (typ.)
Noise Figure	: 12.0dB (typ.)
Maximum RF Input Power	: +2.0dBm
DC Supply Input	: +48V ± 5% 6.5A (max.) +15V ± 5% 1.0A (max.) -15V ± 5% 0.5A (max.)
Operating Temperature	: 0°C to +40°C
Storage Temperature	: -15°C to +85°C
Cooling	: Forced Air Cooling Required
Connectors	: RF - IN SMA - FEMALE RF - OUT SMA - FEMALE FWD MON SMA - FEMALE INTERFACE D-Sub Connector
Size	: (W)210mm × (D)120mm × (H)25mm
Weight	: 800g (typ.)
Others	: Forward RF Monitor With Output Circulator

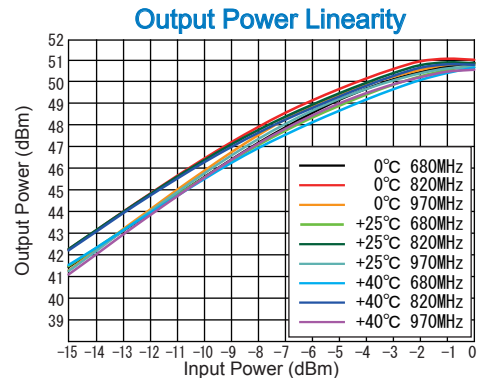
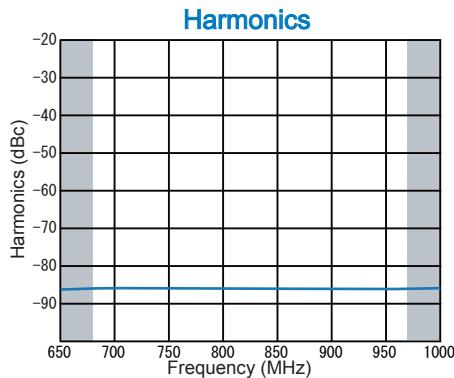
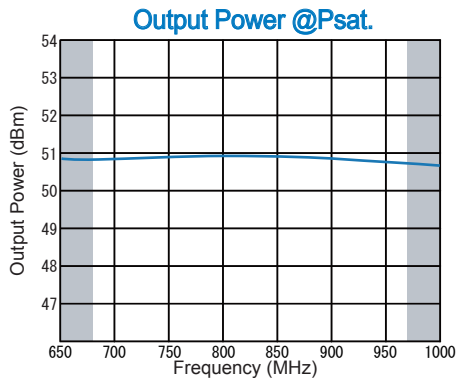
HOW TO ORDER

Model Name R&K-GA681M971-5050M No Option

TYPICAL PERFORMANCE (Temp @+25°C)



Pin Assign	
PIN No.	Description
1	DC+48V IN
2	DC+48V IN
3	DC+48V IN
4	DC+15V IN
5	DC-15V IN
6	
7	
8	N.C.
9	N.C.
10	
11	
12	Enable CONT IN
13	N.C.
PIN No.	Description
14	
15	
16	GND
17	
18	
19	
20	N.C.
21	
22	FWD DET OUT
23	REF DET OUT
24	
25	GND



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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