

RF POWER AMPLIFIER

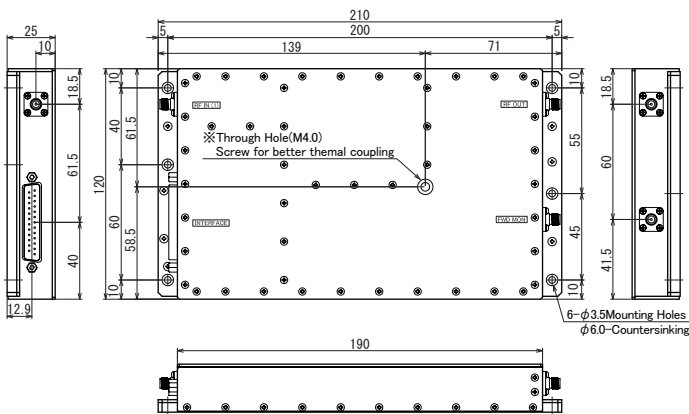


R&K-GA681M971-5050M



OUTLINE DRAWING

※IN MILLIMETERS



Base plate must be grounded and mounted to heat sink to guarantee operation up to maximum temperature.

- 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.)

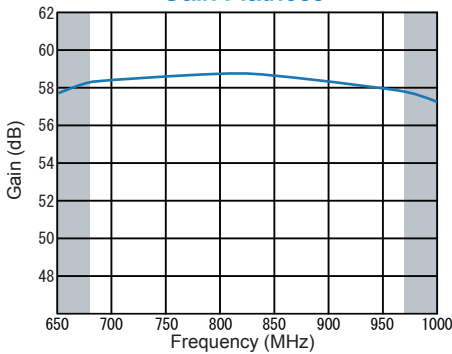
Operating Temperature	: 0°C to +40°C
Storage Temperature	: -15°C to +85°C
Cooling	: Forced Air Cooling Required
Connectors	: RF - IN SMA - FEMALE RF - OUT SMA - FEMALE FWD MON SMA - FEMALE INTERFACE D-Sub Connector
Size	: (W)210mm×(D)120mm×(H)25mm
Weight	: 800g (typ.)
Others	: Forward RF Monitor With Output Circulator

HOW TO ORDER

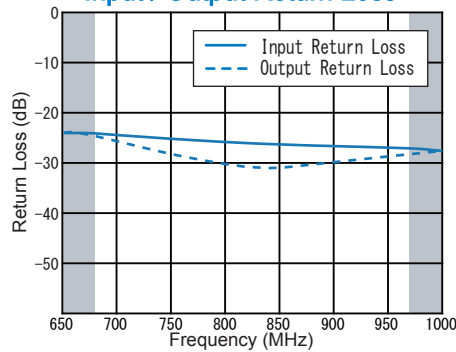
Model Name R&K-GA681M971-5050M No Option

TYPICAL PERFORMANCE (Temp @+25°C)

Gain Flatness



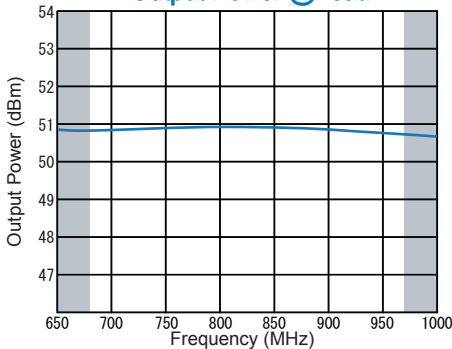
Input / Output Return Loss



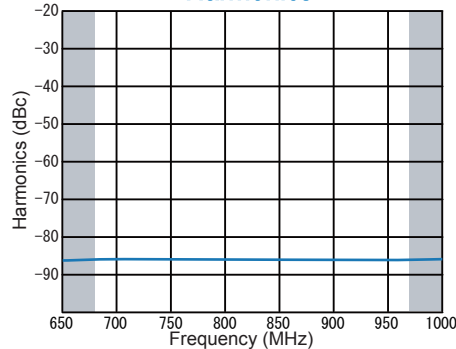
Pin Assign

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

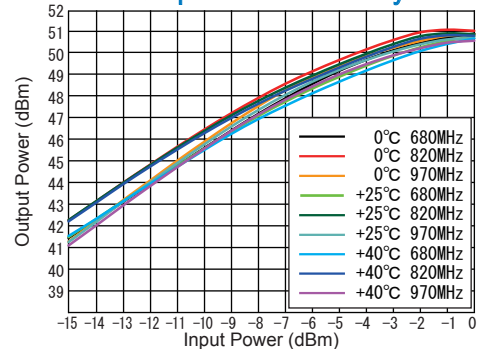
Output Power @Psat.



Harmonics



Output Power Linearity



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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