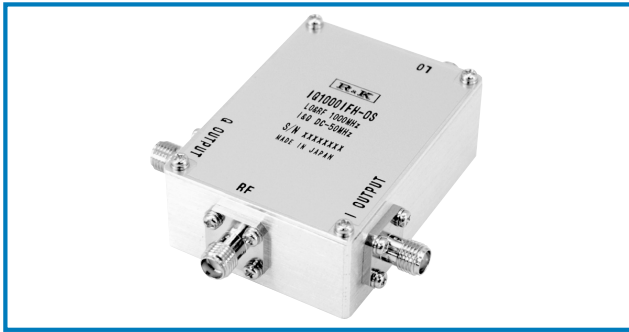
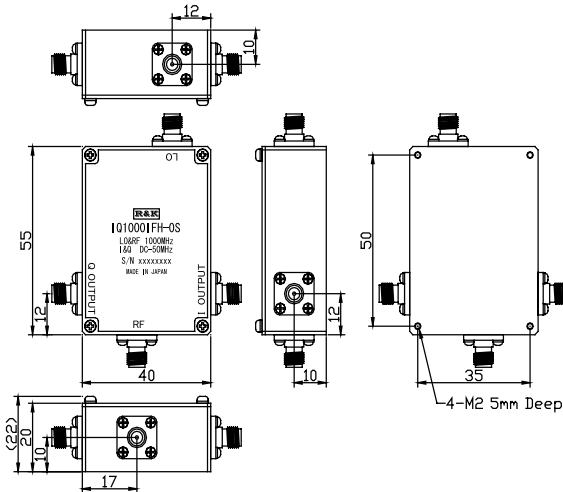


## R&K-IQ1000IFH-0S



### OUTLINE DRAWING

※IN MILLIMETERS



- LO&RF Center Frequency :1000MHz
- Good Amplitude and Phase Balance
- Excellent Harmonic suppression
- Small Size
- RoHS Compliance

### SPECIFICATIONS

LO&RF Frequency Range	: 1000MHz (Bandwidth 10%)
I&Q Frequency Range	: DC - 50MHz
LO Input Level	: +10dBm ±0.5dB
Conversion Loss	: 12dB (max.)
Amplitude Balance	: 0.5dB (max.)
Phase Balance	: 5° (max.)
LO-RF Isolation	: 30dB (min.)
LO-IF Isolation	: 50dB (min.)
Harmonic Suppression	: -45dBc (min.)
(@LO1000MHz+10dBm,RF1050MHz-5dBm)	
VSWR (All Ports)	: 2.0:1 (max.)
Input 1dB Compression Point	: +4dBm (typ.)
Impedance	: 50 Ω
Maximum RF Input Power	: 100mW
Operating Temperature	: -40°C to + 85°C
Storage Temperature	: -40°C to +100°C
Connectors (Standard)	: SMA-FEMALE
Connectors (Option)	: BNC-FEMALE
	: N-FEMALE
Weight (SMA Connector)	: 90g (typ.)

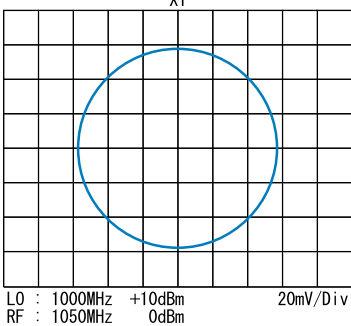
### HOW TO ORDER

Model Name R&K-IQ1000IFH-0S

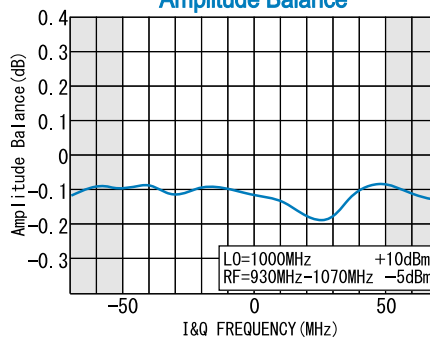
S = SMA - FEMALE  
 B = BNC - FEMALE  
 N = N - FEMALE

### TYPICAL PERFORMANCE (Temp @+25°C)

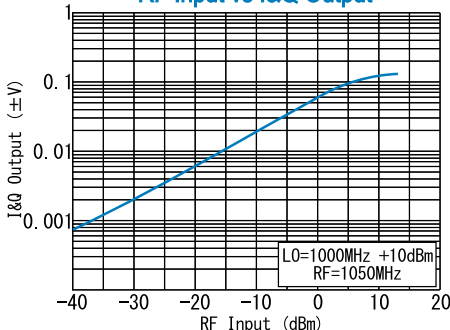
I&Q Output



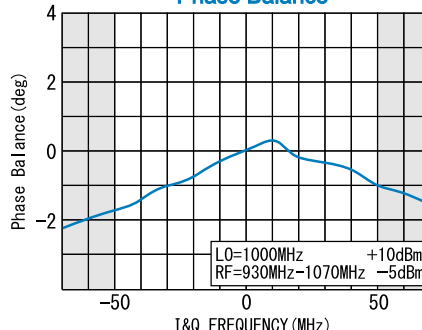
Amplitude Balance



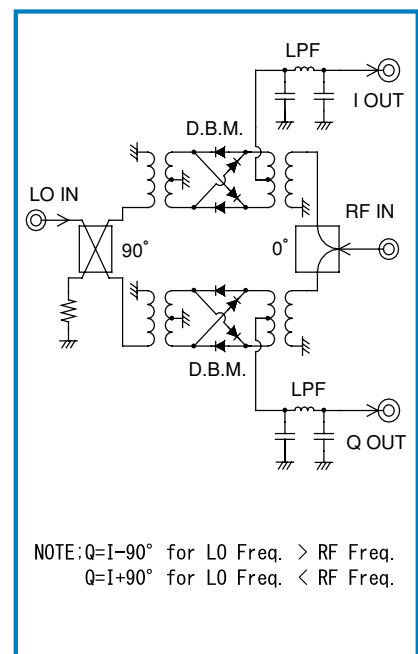
RF Input vs I&Q Output



Phase Balance



### SCHEMATIC



NOTE: Q=I-90° for LO Freq. > RF Freq.  
 Q=I+90° for LO Freq. < RF Freq.

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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