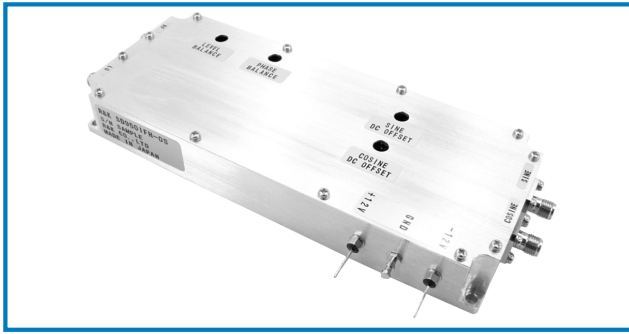


PHASE SENSITIVE DETECTOR

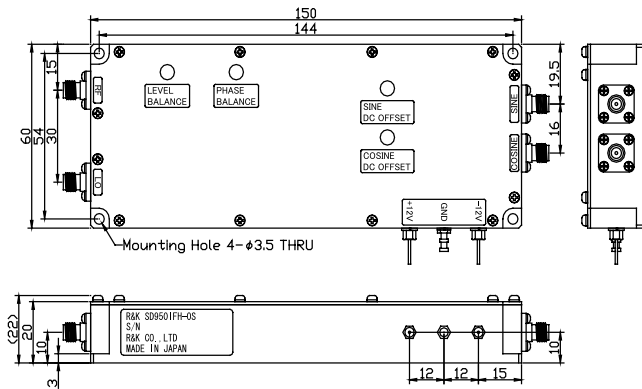


R&K-SD950IFH-0S



OUTLINE DRAWING

※IN MILLIMETERS



- Input Center Frequency : 950MHz
- IF Bandwidth / DC ~ 50MHz
- Good Amplitude and Phase Balance
- Wide Dynamic Range / Linearity
- RoHS Compliance

SPECIFICATIONS

| | |
|-----------------------------------|--------------------------|
| Input Center Frequency Range | : 950MHz (Bandwidth 10%) |
| Output Frequency Range | : DC - 50MHz |
| RF Input Power Level | : + 5dBm(Linear) |
| | : +10dBm(Non-Linear) |
| LO Input Level | : 0dBm±0.5dB |
| Sine/Cosine Detector Output Level | : ±1V (typ.) @50 Ω |
| (@ RF Input Level 0dBm) | |
| Amplitude Balance | : 2.0dB (max.) |
| Phase Balance | : 8° (max.) |
| Input VSWR | : 1.3:1 (max.) |
| Impedance | : 50 Ω |
| DC Supply Input | : +12V 380mA (max.) |
| | : -12V 110mA (max.) |
| Operating Temperature | : -20°C to + 60°C |
| Storage Temperature | : -20°C to + 80°C |
| Connectors (Standard) | : SMA-FEMALE |
| Connectors (Option) | : BNC-FEMALE |
| Weight (SMA Connector) | : 300g (typ.) |

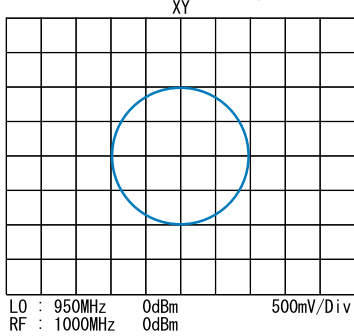
HOW TO ORDER

Model Name R&K-SD950IFH-0S

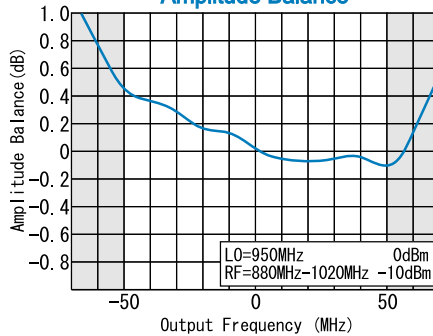
S = SMA - FEMALE
B = BNC - FEMALE

TYPICAL PERFORMANCE (Temp @+25°C)

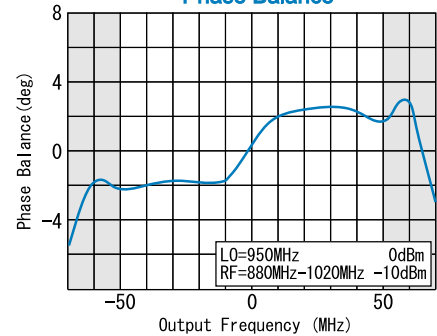
Sine & Cosine Output



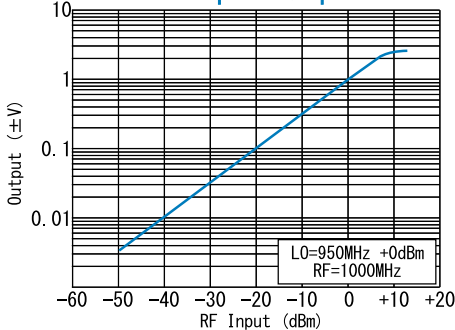
Amplitude Balance



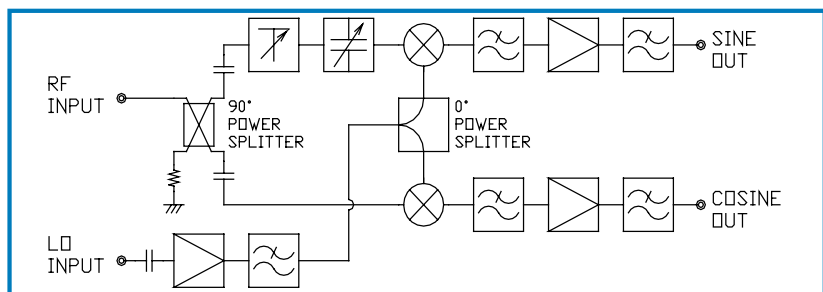
Phase Balance



RF Input vs Output



SCHEMATIC



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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