**PHASE SENSITIVE DETECTOR**

**R&K-SD500IFM-0S**

- Input Center Frequency: 500MHz
- IF Bandwidth / DC ~ 10MHz
- Good Amplitude and Phase Balance
- Wide Dynamic Range / Linearity
- RoHS Compliance

**SPECIFICATIONS**

- Input Center Frequency Range: 500MHz (Bandwidth 10%)
- Output Frequency Range: DC - 10MHz
- RF Input Power Level: + 5dBm (Linear)
- LO Input Level: 0dBm ± 0.5dB
- Sine/Cosine Detector Output Level: ±1V (typ.) @ 50Ω
- (RF Input Level 0dBm) Amplitude Balance: 0.8dB (max.)
- Phase Balance: 5° (max.)
- Input VSWR: 1.3:1 (max.)
- Impedance: 50Ω
- DC Supply Input: ±12V 380mA (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-SD500IFM-0S
- S = SMA - FEMALE
- B = BNC - FEMALE

**TYPICAL PERFORMANCE (Temp @+25°C)**

- Sine & Cosine Output
- Amplitude Balance
- Phase Balance
- RF Input vs Output

**SCHEMATIC**

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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.