

RF POWER DETECTOR



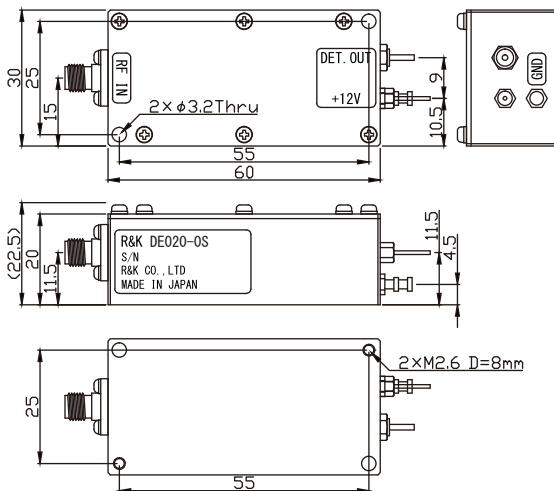
Ver.2.0 : 2020.04.01

R&K-DE020-0S



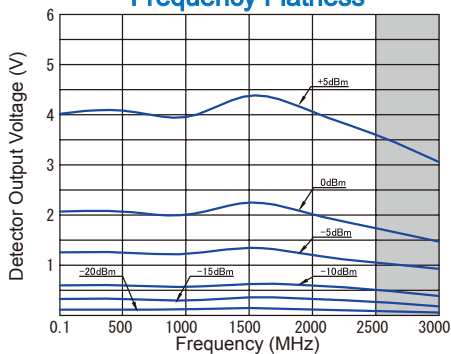
OUTLINE DRAWING

※IN MILLIMETERS

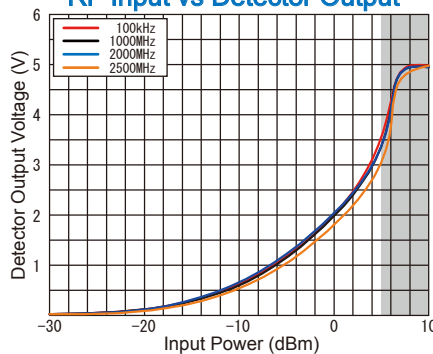


TYPICAL PERFORMANCE (Temp @+25°C)

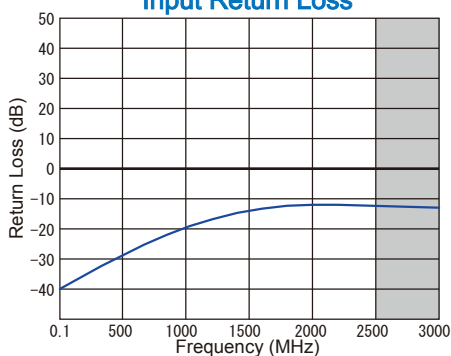
Frequency Flatness



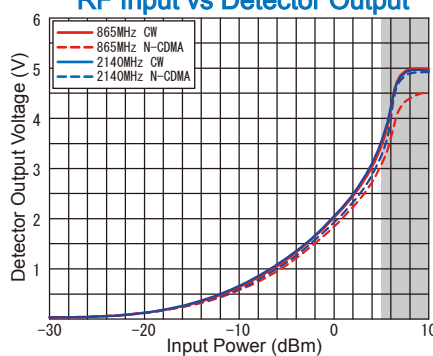
RF Input vs Detector Output



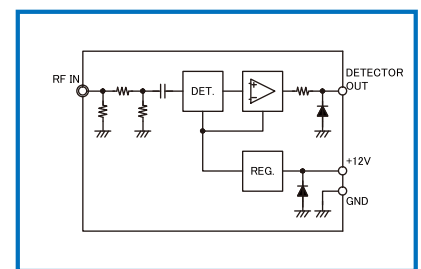
Input Return Loss



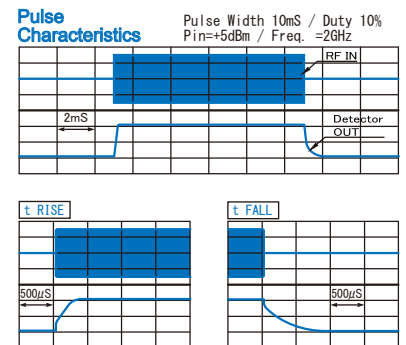
RF Input vs Detector Output



SCHEMATIC



Pulse Characteristics



- Broadband Frequency : 100kHz~2500MHz
- Linear Volts - in - V-RMS
- Dynamic Range : 30dB (min.)
- Low Cost
- RoHS Compliance

SPECIFICATIONS

Frequency Range	: 100kHz – 2500MHz
Dynamic Range	: 30dB (min.) @2GHz
High Level Sensitivity	: +4V (typ.) @+5dBm Input / 2GHz
Low Level Sensitivity	: +0.1V (typ.) @-25dBm Input / 2GHz
Response Time	: 1mS (max.) tRise / tFall
Input Impedance	: 50Ω
Input Return Loss	: 15dB (typ.)
DC Supply Input	: +12V ±0.5V : 30mA (max.)
Maximum RF Input Power	: +15dBm
Operating Temperature	: -20°C to +60°C
Storage Temperature	: -20°C to +80°C
Input Connectors	: SMA-Female
Output Terminal	: Solder Terminal
Weight	: 80g (typ.)

OUTPUT characteristics are measured with 1MΩ.

HOW TO ORDER

Model Name
R&K-DE020-0S No Option

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, the export of R&K products from Japan may be subject to an export license by the government of Japan, based on Japan's "Foreign Exchange and Foreign Trade Law".

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R&K-DE020-0S

Revision history

Date	Version Number	Detailed contents of the change.
2008/11/25	1.0	First edition issued.
2020/04/01	2.0	Outline drawing change. Specifications change. - Frequency Range : 1MHz~2500MHz ⇒ 100kHz~2500MHz - High Level Sensitivity : +3.5V (typ.) @+5dBm Input ⇒ +4V (typ.) @+5dBm Input / 2GHz - DC Supply Input : +12V ±1V, 80mA (max.) ⇒ +12V ±0.5V, 30mA (max.) - Maximum RF Input Power : +10dBm ⇒ +15dBm - Weight : 75g (typ.) ⇒ 80g (typ.)

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