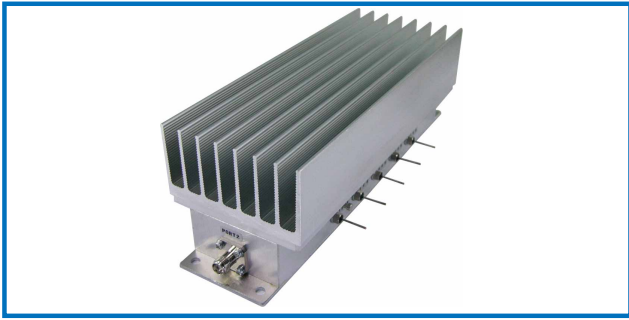


MECHANICAL STEP ATTENUATOR

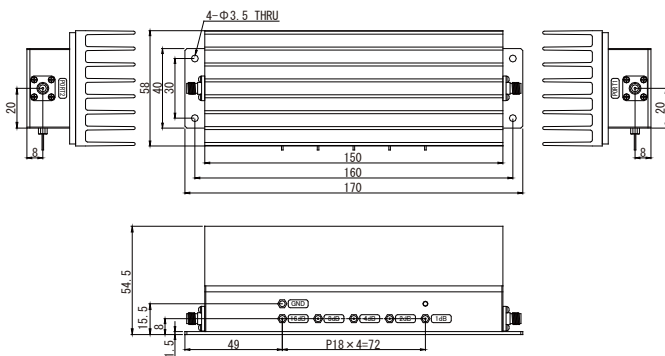


R&K-PT120(1/31)-0S/3.3V R&K-PT120(1/31)-0S/5.0V



OUTLINE DRAWING

※IN MILLIMETERS



- Broadband Frequency : DC ~ 2500MHz
- Attenuation : 1dB Step/5Bit/31dB
- High Power : +40dBm (avg.)
- Input Intercept Point : +75.0dBm (min.)
- RoHS Compliance

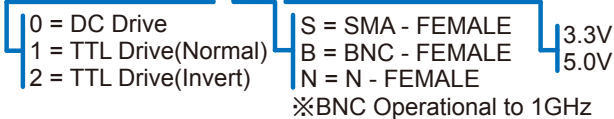
SPECIFICATIONS

Frequency Range	: DC ~ 2500MHz
Insertion Loss (DC-1.5GHz)	: 2.0dB (max.)
(1.5GHz- 2.5GHz)	: 3.5dB (max.)
Attenuation Range / Steps	: 31dB / 1, 2, 4, 8, 16dB
Attenuation Accuracy (DC-1.5GHz)	: ±1.0dB (max.)
(1.5GHz-2.5GHz)	: ±1.5dB (max.)
Impedance	: 50 Ω
Input /Output VSWR	: 1.5 : 1 (typ.)
Logic Input (DC Drive/Standard)	: +3.3V = Att Setting / 0V = Zero Setting
(DC Drive/Option)	: +5.0V = Att Setting / 0V = Zero Setting
(TTL Drive/Option-1)	: High = Att Setting / Low = Zero Setting
(TTL Drive/Option-2)	: High = Zero Setting / Low = Att Setting
Switching Speed	: 5ms (max.) tRise / tFall
DC Supply Input (Standard)	: +3.3V±0.5V 120mA (max.) / Step
DC Supply Input (Option)	: +5.0V±0.5V 100mA (max.) / Step
Input Intercept Point	: +75.0dBm (min.)
Maximum RF Input Power	: +40.0dBm (avg.)
Operating Temperature	: -20°C to +60°C
Storage Temperature	: -20°C to +80°C
Connectors (Standard)	: SMA-FEMALE
Connectors (Option)	: BNC-FEMALE
Weight (Standard)	: 550g (typ.)

HOW TO ORDER

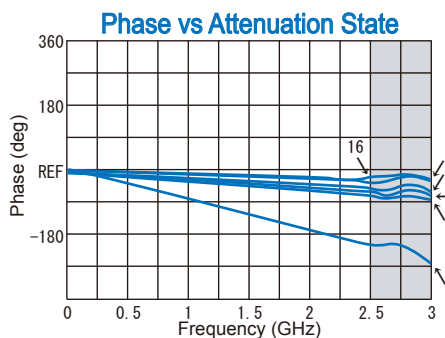
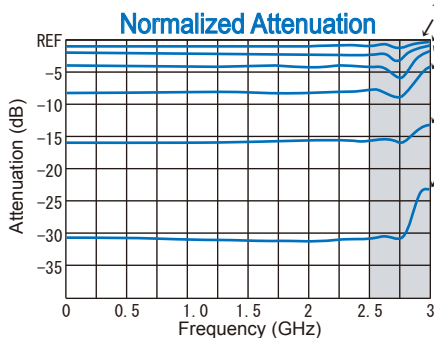
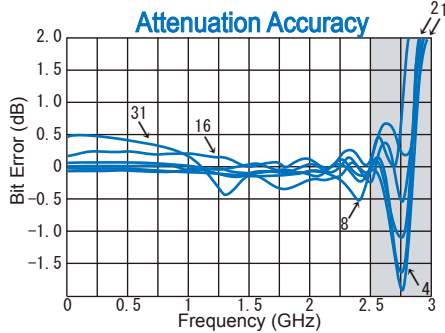
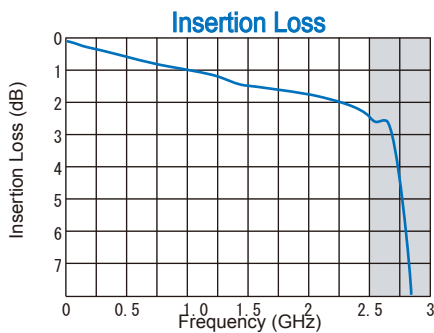
Model Name

PT120(1/31)-0S/3.3V

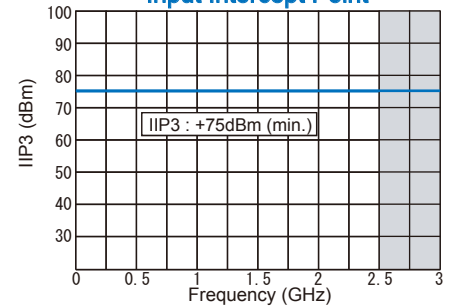


※BNC Operational to 1GHz

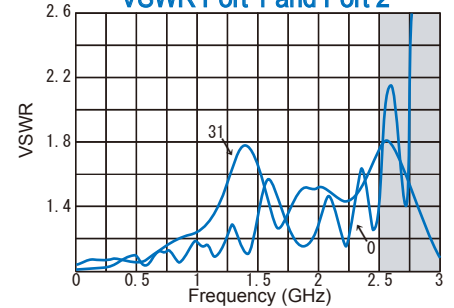
TYPICAL PERFORMANCE



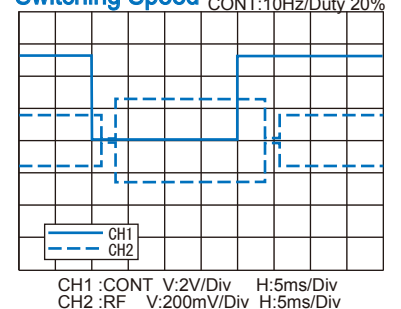
Input Intercept Point



VSWR Port 1 and Port 2



Switching Speed



* Rev. 1.1 : Feb./12/2015

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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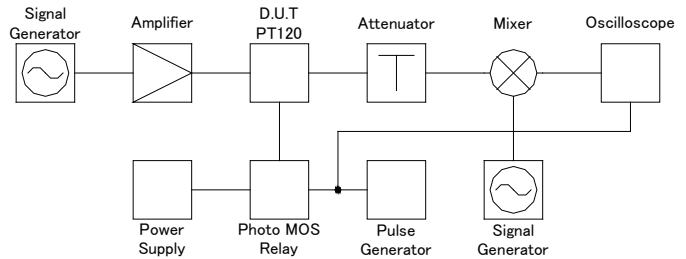
R&K-PT120(1/31)-0S/3.3V

Mechanical & Electrical Life Test / Test Report

TEST CONDITIONS

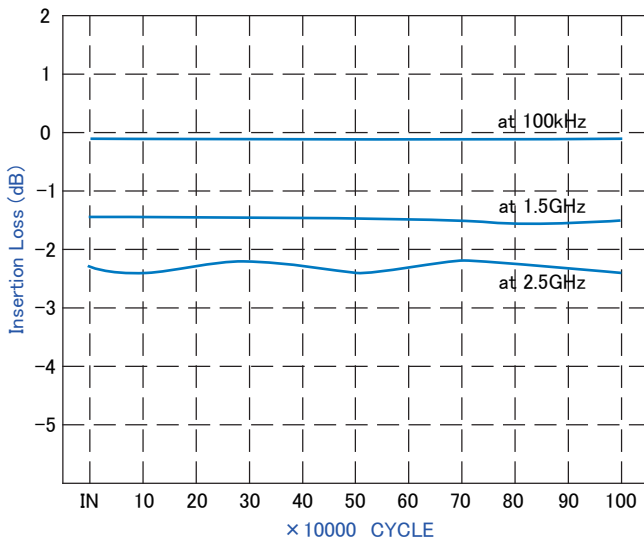
Voltage	3.3V DC
Operation frequency	1000MHz
Input power	10W (+40dBm)
Switching speed	1sec.
Duty	50%
Ambient temperature	Room temperature
Operation	1×10^6 switching times

MEASURING BLOCK DIAGRAM

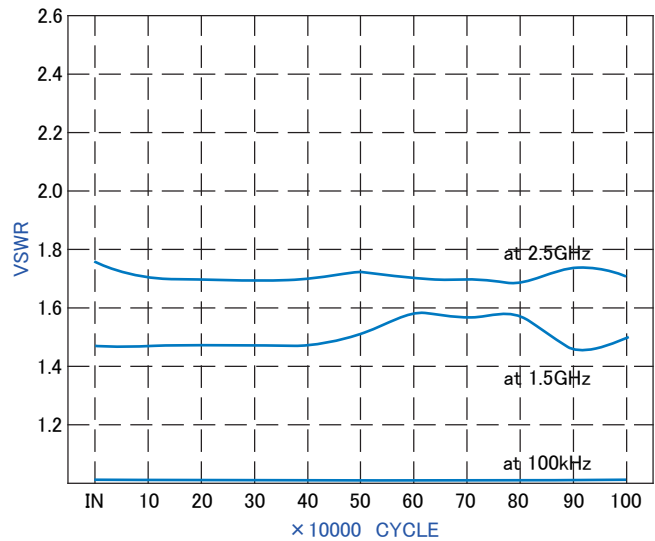


TEST RESULT

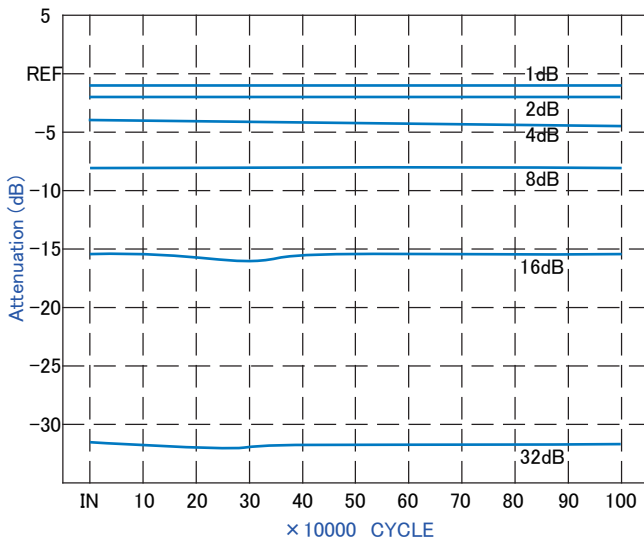
Insertion Loss / ATT=0dB Setting



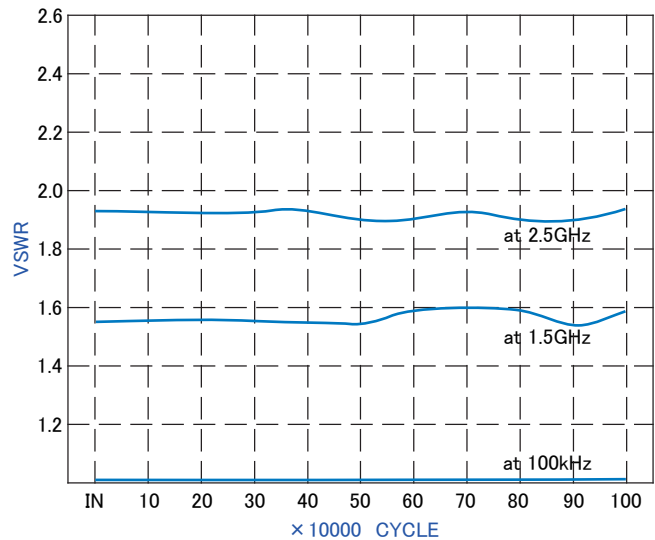
Port1 VSWR / ATT=0dB Setting



Normalized Attenuation / at 2.5GHz



Port2 VSWR / ATT=0dB Setting



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