**R&K-PT030-0S**

**MECHANICAL STEP ATTENUATOR**

- **Broadband Frequency**: DC - 4000MHz
- **Attenuation**: 1dB Step/6Bit/45dB
- **Low Cost**
- **RoHS Compliance**

**SPECIFICATIONS**

- **Frequency Range**: DC - 4000MHz
- **Insertion Loss (DC-2GHz)**: 2.5dB (max.)
  
  (2GHz- 4GHz): 3.5dB (max.)

- **Attenuation Accuracy / Steps**: 45dB / 1,2,4,8,10,20dB
- **Impedance**: 50Ω
- **Attenuation Accuracy (DC-2GHz)**: ±0.5dB (max.)
  
  (2GHz-4GHz): ±1.0dB (max.)

- **Input / Output VSWR**: 1.3 : 1 (typ.)

- **Logic Input**
  
  (DC Drive): +5V = 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**: +5V ± 0.2V
  
  60mA (max.) / Each Step
  
  (Option -1X or -2X): 80mA (max.) / Each Step

- **Maximum RF Input Power**: +24dBm

- **Operating Temperature**: -20℃ to +60℃

- **Storage Temperature**: -20℃ to +80℃

- **Connectors (Standard)**: SMA-FEMALE

- **Connectors (Option)**: N-FEMALE

- **Weight (PT030-0S)**: 220g (typ.)

**HOW TO ORDER (Connector Option)**

- **Model Name**
  
  PT030-0S

  - **S**: SMA - FEMALE
  
  - **N**: N - FEMALE

  - **0**: DC Drive

  - **1**: TTL Drive(Normal)

  - **2**: TTL Drive(Invert)

**TYPICAL PERFORMANCE (Temp @ +25℃)**

- **Insertion Loss**

  ![Insertion Loss Graph](image)

- **Attenuation Accuracy**

  ![Attenuation Accuracy Graph](image)

- **VS WR Port 1 and Port 2**

  ![VS WR Graph](image)

- **Normalized Attenuation**

  ![Normalized Attenuation Graph](image)

- **Phase vs Attenuation State**

  ![Phase vs Attenuation Graph](image)

- **Switching Speed**

  ![Switching Speed Graph](image)

---

*R&K Company Limited*

721-1 Maeda,Fuji-City,Shizuoka-Pref.416-8577 Japan

Tel: +81-545-31-2600  E-mail:info@rkco.jp

Fax: +81-545-31-1600  URL: http://rk-microwave.com

---

*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 accept products to any country for use in military or defense applications.*