**R&K-PT010-0S**

**MECHANICAL STEP ATTENUATOR**

- Broadband Frequency: DC ~ 5500MHz
- Attenuation: 1dB Step/4Bit/15dB
- Low Cost
- RoHS Compliance

**SPECIFICATIONS**

- **Frequency Range**: DC - 5500MHz
- **Insertion Loss (DC-3GHz)**: 2.0dB (max.)
- **(3GHz-5.5GHz)**: 3.5dB (max.)
- **Attenuation Range / Steps**: 15dB / 1, 2, 4, 8dB
- **Attenuation Accuracy**:
  - (DC-3GHz): ±0.5 dB (max.)
  - (3GHz-5.5GHz): ±0.75dB (max.)
- **Impedance**: 50Ω
- **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.) τRise / τFall
- **DC Supply Input**:
  - +5V ± 0.2V
  - 60mA (max.) / Each Step
- **Maximum RF Input Power**: +24dBm
- **Operating Temperature**: -20°C to +60°C
- **Storage Temperature**: -20°C to +80°C
- **Connectors (Standard)**: SMA-FEMALE
- **Connectors (Option)**: N-FEMALE
- **Weight (PT010-0S)**: 150g (typ.)

**TYPICAL PERFORMANCE (Temp @ +25°C)**

<table>
<thead>
<tr>
<th>Insertion Loss</th>
<th>Attenuation Accuracy</th>
<th>VSWR Port 1 and Port 2</th>
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<tbody>
<tr>
<td>FREQUENCY (GHz)</td>
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<tr>
<th>Normalized Attenuation</th>
<th>Phase vs Attenuation State</th>
<th>Switching Speed</th>
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**HOW TO ORDER (Connector Option)**

- Model Name
  - PT010-0S
- **S = SMA - FEMALE**
- **N = N - FEMALE**
- **0 = DC Drive**
- **1 = TTL Drive(Normal)**
- **2 = TTL Drive(Invert)**

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