

SPDT PIN Switch with TTL Driver, 50 to 75 GHz, Reflective

Description:

Model SKD-5037533035-1515-R1-M a PIN diode MMIC based, single pole, double throw (SPDT) switch with a TTL driver that operates from 50 to 75 GHz. The SPDT switch requires a separate -5 V and +5 V biasing in addition to the TTL control. This model has an insertion loss of 3.0 dB typical and an isolation of 35 dB nominal at its center frequency. The SPDT switch features WR-15 waveguides and standard UG-385/U anticocking flanges at the input and outputs and a female SMA connector for TTL control.



Features:

- Low Insertion Loss
- High Isolation

Applications:

- IEEE 802.11ad, WiGig
- Radar Systems
- Communication Systems
- Sensors

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	50 GHz		75 GHz
Insertion Loss		3.0 dB	
Isolation		35 dB	
Power Handling		+20 dBm	+23 dBm
Bias Voltage		±5 V _{DC}	
Bias Current		10 mA	
Switching Speed		100 ns	
Specification Temperature		+25°C	
Operating Temperature	-25°C		+65°C

Mechanical Specifications:

Item	Specification
Input Port	WR-15 Waveguide with UG-385/U Anti-Cocking Flange
Output Ports	WR-15 Waveguide with UG-385/U Anti-Cocking Flange
Bias Ports	Feed Through Pins
TTL Control	SMA (F)
Case Material	Aluminum
Finish	Gold Plated
Weight	1.2 Oz
Size	1.10" (L) X 1.00" (W) X 0.83" (H)
Outline	KD-RVM-A-2

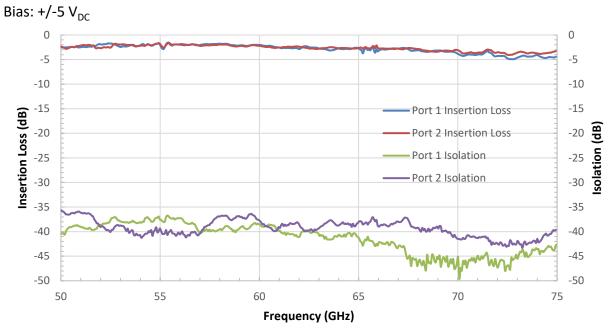


ESD

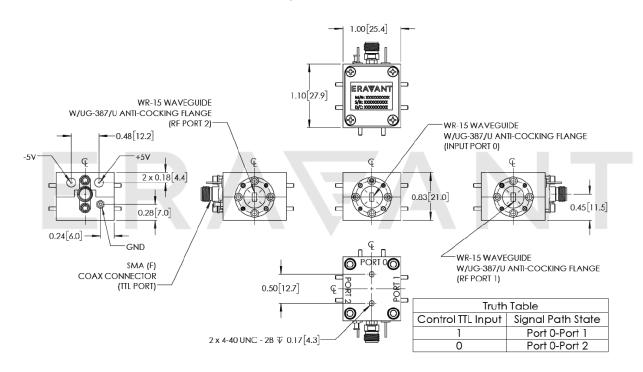
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Insertion Loss and Isolation vs. Frequency



Mechanical Outline: (Unless otherwise specified, all dimensions are in inches [millimeters])



Note:



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- Other mechanical configurations are available under different model numbers.
- SAGE Millimeter, Inc. reserves the right to change the information presented without notice.

Caution:

- Exceeding absolute maximum ratings shown will damage the device.
- The switch is a static sensitive device. Always follow ESD rules when working with the switch.
- Any foreign objects in the waveguide will cause performance degradation and possible device damage.
- Proper torque, 8.0 ± 0.15 inch-pounds (0.90 ± 0.02 Nm), should be applied. **SAGE Millimeter** torque wrench, model SCH-08008-S1, is highly recommended.





