

U Band SPST PIN Switch with TTL Driver, Absorptive

Description:

Model SKS-4535533030-VFVF-AA is a U band reflective PIN diode based, single pole, single throw (SPST) switch with a TTL driver that operates between 45 and 55 GHz. This model offers a typical insertion loss of 3.0 dB and 30 dB port-to-port isolation with a typical switching speed of 100 nanoseconds. The switch has female V connectors for all RF ports and solder pins for DC bias and TTL control.



Features:

- High Isolation
- Compact Size
- Fast Control Speed

Applications:

- 5G Systems
 - Radar Systems
- Communication Systems
- Automatic Test Set
- Switching Network

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	45 GHz		55 GHz
Insertion Loss		3.0 dB	
Return Loss		10 dB	
Isolation		30 dB	
Operational RF Input Power			+20 dBm
Damage RF Input Power			+27 dBm
Bias Voltage		±5 V _{DC}	
Bias Current		50/50 mA	
Control	Alles III	TTL	
Switching Speed		100 ns	
Specification Temperature		+25 °C	11 - 39
Operation Temperature	-45 °C		+85 °C

Mechanical Specifications:

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Item	Specification	ter	
Input Port	K(F)		
Output Port	K(F)		
Bias	Solder Pins		
Logic Input	Solder Pins		
Case Material	Aluminum		
Finish	Gold Plated		
Weight	1.06 Oz		
Size	1.18" (L) X 1.00" (W) X 0.40" (H)		
Outline	KS-AC-Z1		



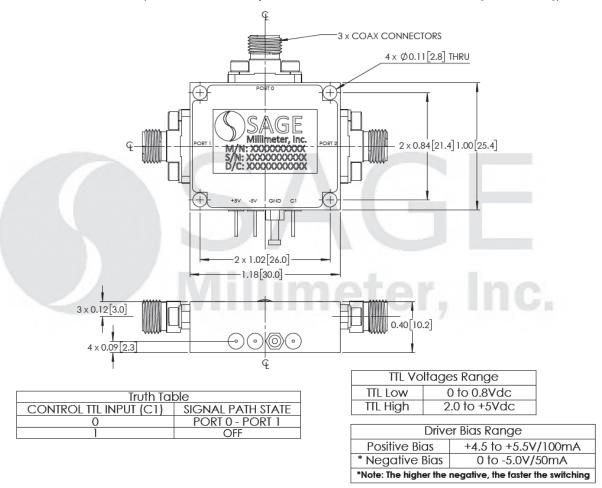
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Mechanical Outline: (Unless otherwise specified, all dimensions are in inches [millimeters])



Note:

- All data presented is collected from a sample lot. Actual data may vary unit to unit slightly.
- All testing was performed under +25 °C case temperature.
- 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.
- Proper torque, 8.0 ± 0.4 inch-pounds (0.90 ± 0.02 Nm), should be applied. **SAGE Millimeter** torque wrench, model SCH-08008-S1, is highly recommended.



