

SP4T PIN Switch with TTL Driver, 0.5 to 43 GHz, Absorptive

Description:

Model SK4-0524335060-KFKF-A3 is an absorptive PIN diode based, single pole, four throw (SP4T) switch with a TTL driver that operates between 500 MHz and 43 GHz. This model offers a typical insertion loss of 5 dB and 60 dB port-to-port isolation with a switching speed no slower than 100 nanoseconds. The switch has female K connectors for all RF ports and solder pins for DC bias and TTL control.



Features:

- Ultrabroad Bandwidth
- High Isolation
- **Compact Size**
- **Fast Control Speed**

Applications:

- 5G Systems
- Radar Systems
- **Communication Systems**
- Automatic Test Equipment
- **Switching Network**

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	0.5 GHz		43 GHz
Insertion Loss		5.0 dB	
Return Loss		10 dB	
Isolation	45 dB	60 dB	
Operational RF Input Power			+20 dBm
Damage RF Input Power			+27 dBm
Bias Voltage		±5 V _{DC}	
Bias Current		100/50 mA	
Control		TTL	
Switching Speed		100 ns	
Specification Temperature	P M	+25 °C	
Operation Temperature	0 °C		+50 °C

Mechanical Specifications:

Item	Specification		
Input Port	K(F)		
Output Port	K(F)		
Bias	Solder Pins		
Logic Input	Solder Pins		
Case Material	Brass		
Finish	Gold Plated		
Weight	1.8 Oz		
Outline	K4-AC-Z1		

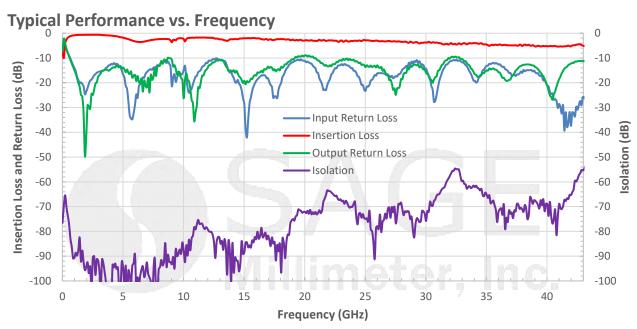


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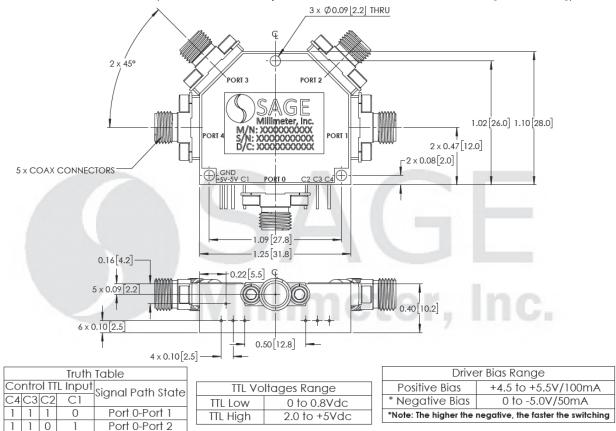


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Note: The insertion loss, isolation and return loss between of other ports are similar to the above plots.

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





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Port 0-Port 3

Port 0-Port 4



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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 of the switch will damage the device.
- The switch is a static sensitive device. Always follow ESD rules when working with the switches.
- Proper torque, 8.0 ± 0.15 inch-pounds (0.92 ± 0.05 Nm), should be applied. SAGE Millimeter torque wrench, model SCH-08008-S1, is highly recommended.





