



SPST PIN Switch with TTL Driver, Absorptive

Description:

Model **SKS-3034032030-KFKF-A1-M** is an absorptive PIN diode based, single pole, single throw (SPST) switch with a TTL driver that covers 30 to 40 GHz. This model offers a typical insertion loss of 2 dB with a nominal isolation of 30 dB. The SPST switch has female K connectors at the RF input and output and a female D-Sub 9 pin connector for TTL control. The SPST switch can be modified for various operational frequencies under different model numbers.



Features:

- Low Insertion Loss
- High Isolation
- Fast Control Speed

Applications:

- Radar Systems
- Communication Systems
- Automatic Test Set

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	30 GHz		40 GHz
Insertion Loss		2.0 dB	
Isolation		30 dB	
Return Loss		9 dB	
Power Handling			+23 dBm
Bias Voltage		±5 V _{DC}	
Bias Current		25 mA	
Control Signal		TTL	
Switching Speed		100 nS	
Switch Type		Absorptive	
Specification Temperature		+25 °C	
Operating Temperature	-25 °C		+65 °C

Mechanical Specifications:

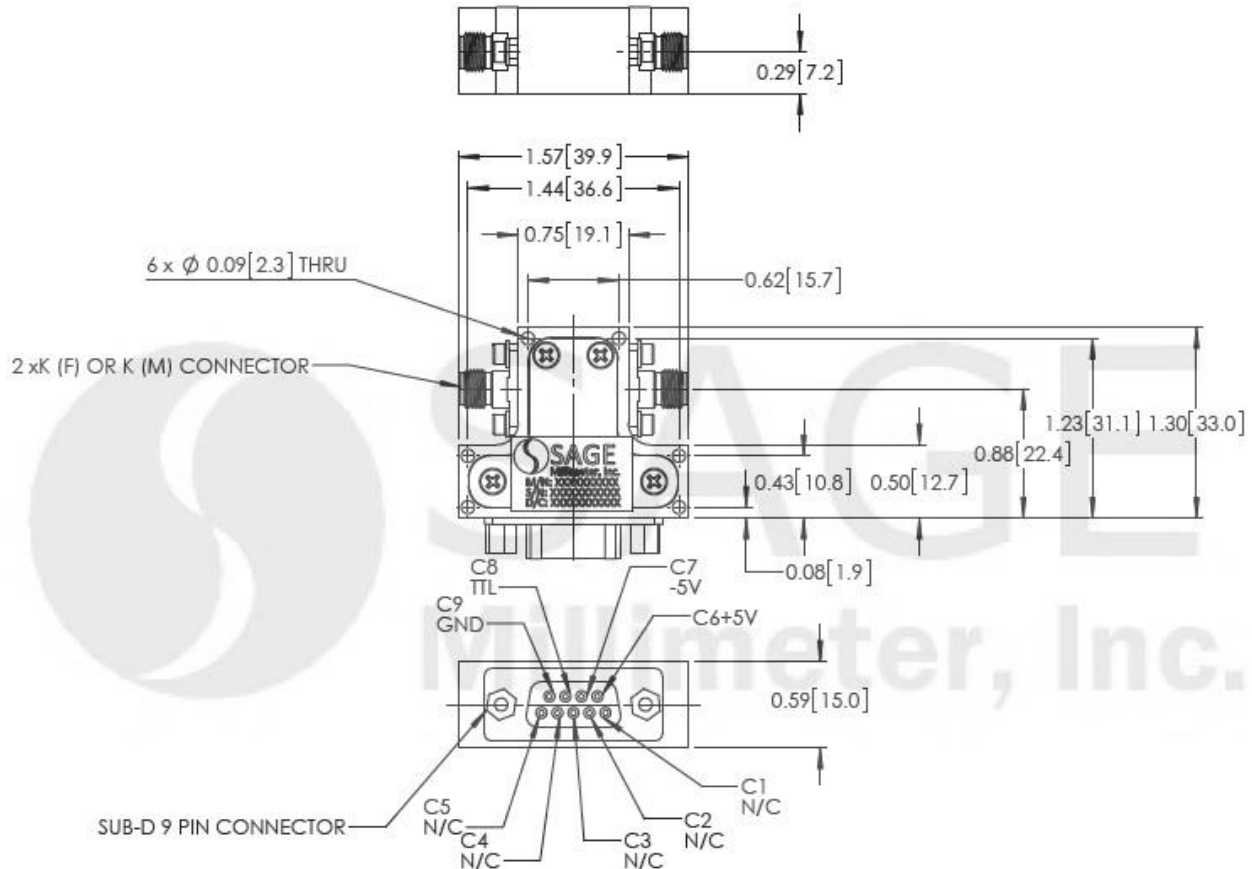
Item	Specification
RF Ports	K(F)
Bias Ports	D-Sub 9 Pin Connector (F)
TTL Control Port	D-Sub 9 Pin Connector (F)
Case Material	Aluminum
Finish	Gold Plated
Weight	1.3 Oz
Insertion Length	1.57" (L) x 1.30" (W) x 0.59" (H)
Outline	KS-AC-2





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



Note:

- 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 ± 0.15 inch-pounds (0.90 ± 0.02 Nm), should be applied. **SAGE Millimeter torque wrench, model SCH-08008-S1, is highly recommended.**

