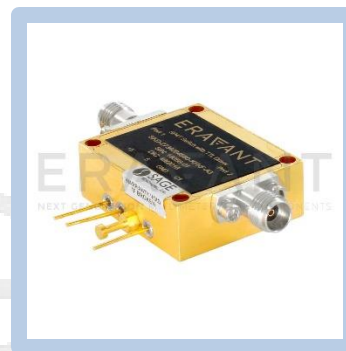




SPST PIN Switch with TTL Driver, 0.5 to 50 GHz, Absorptive

Description:

Model **SKS-0525035050-2F2F-A3** is an absorptive PIN diode based, single pole, single throw (SPST) switch with a TTL driver that operates between 0.5 and 50 GHz. This model offers a typical insertion loss of 5.0 dB and 50 dB port-to-port isolation with a typical switching speed of 100 nanoseconds. The switch has female 2.4mm 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	0.5 GHz		50 GHz
Insertion Loss		5.0 dB	
Return Loss		10 dB	
Isolation		50 dB	
Operational RF Input Power			+23 dBm
Bias Voltage		$\pm 5 V_{DC}$	
Bias Current		50/50 mA	
Control		TTL	
Switching Speed		100 ns	
Specification Temperature		+25 °C	
Operation Temperature	0 °C		+50 °C

Mechanical Specifications:

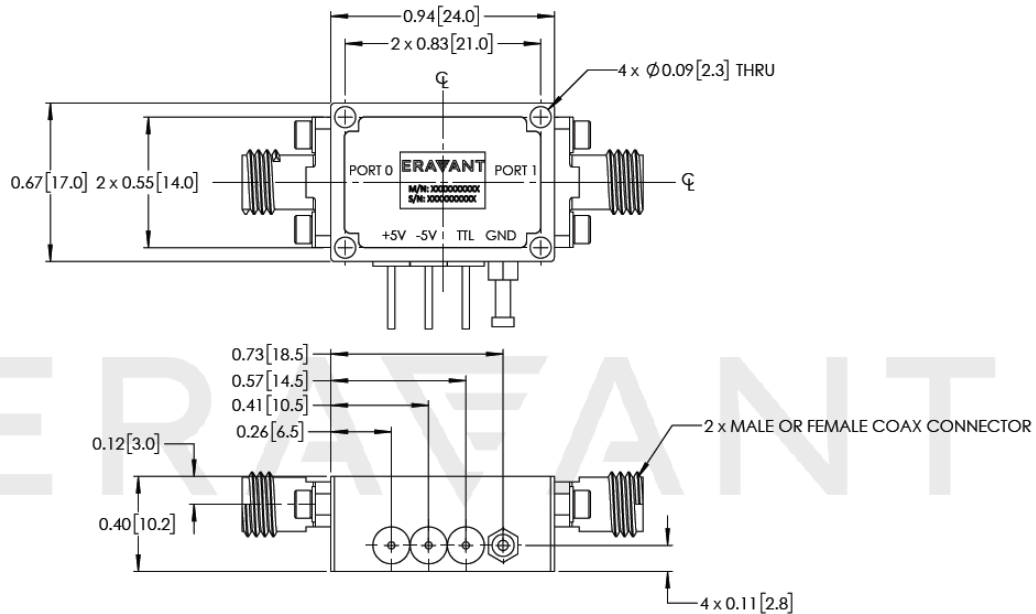
Item	Parameter
Input Port	2.4mm (F)
Output Port	2.4mm (F)
DC Bias	Solder Pins
TTL Control	Solder Pins
Case Material	Aluminum
Finish	Gold Plated
Weight	1.70 Oz
Size	0.94" (L) X 0.67" (W) X 0.4" (H)
Outline	KS-AC-Z





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



Truth Table	
CONTROL TTL INPUT (C1)	SIGNAL PATH STATE
0	PORT 0 - PORT 1
1	OFF

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

