SK4-7531148030-1010-R1-M

Description:

Model SK4-7531148030-1010-R1-M is a MMIC based, solid state single pole, four throw (SP4T), reflective type switch with a TTL driver that operates between 75 and 110 GHz. This model offers a small form factor by integrating the switch and driver into a common housing and achieves a low insertion loss by minimizing circuit loss transmission losses. The SP4T switch offers 30 dB port-to-port isolation with a switching speed of up to 100 nanoseconds. The input and output connectors of the switch are WR-10 waveguides with standard UG-387/U-M Anti-Cocking Flanges.



Features:

Broad Band Coverage

Electrical Specifications:

- High Isolation
- Compact Size

Applications:

- Radar Systems
- Communication Systems
- Automatic Test Equipment
- Switching Network

Parameter	Minimum	Typical	Maximum
Frequency	75 GHz		110 GHz
Insertion Loss		8 dB	
Return Loss		10 dB	
Isolation		30 dB	
Maximum Input RF Power			+30 dBm
Bias Voltage		$\pm 5 V_{DC}$	
Bias Current		30 mA	
Control		TTL	
Switching Speed		100 nS	
Specification Temperature		+25 °C	
Operation Temperature	0 °C		+50 °C

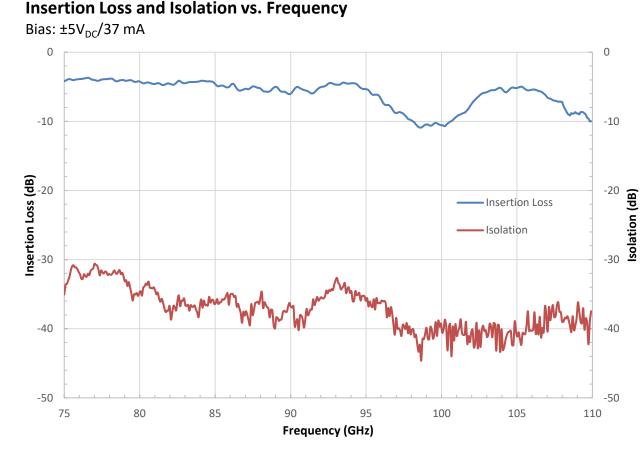
Mechanical Specifications:

Item	Parameter
Input Port	WR-10 Waveguide with UG-387/U-M Anti-Cocking Flange
Output Port	WR-10 Waveguide with UG-387/U-M Anti-Cocking Flange
DC Bias and TTL	Molex Connector, Milli-Grid Header
Case Material	Aluminum
Finish	Gold Plated
Weight	2.7 Oz
Size	1.60" (L) X 1.70" (W) X 0.95" (H)
Outline	K4-RW-A-2
SPERE	www.sagemillimeter.com 3043 Kashiwa Street, Torrance, CA 90



www.sagemillimeter.com | 3043 Kashiwa Street, Torrance, CA 90505 Phone: 424-757-0168 | Fax: 424-757-0188 | Email: sales@sagemillimeter.com Rev 1.0

SP4T Solid State Switch with TTL Driver, 75 to 110 GHz



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.
- 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.
- Any foreign objects in the waveguide will cause performance degradation and possible device damage.

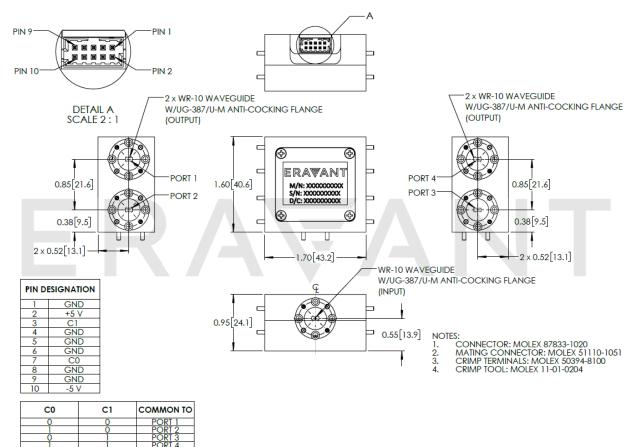






SP4T Solid State Switch with TTL Driver, 75 to 110 GHz

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





RoHS

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