

SPDT PIN Switch with TTL Driver, 40 to 60 GHz, Absorptive

Description:

Model SKD-4036033030-VFVF-A3 is a U-Band absorptive PIN diode based, single pole, double throw (SPDT) switch with a TTL driver that operates between 40 and 60 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 50 nanoseconds. The switch has female V connectors for all RF ports and solder pins for DC bias and TTL control.



Features:

- Full Band Operation
- 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	40.0 GHz		60.0 GHz
Insertion Loss		3.0 dB	
Return Loss		10 dB	
Isolation		30 dB	
Damage 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	-45 °C		+85 °C

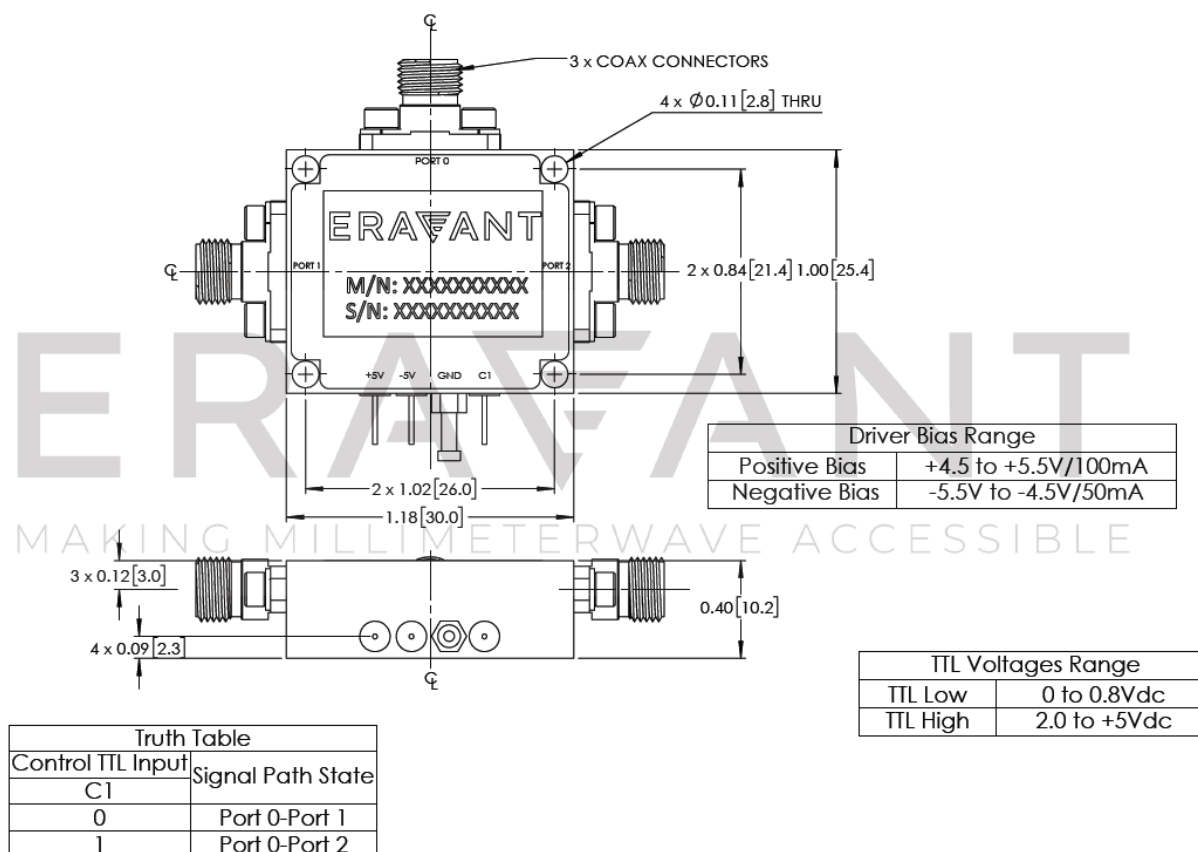
Mechanical Specifications:

Item	Specification
Input Port	1.85 mm (F)
Output Port	1.85 mm (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	KD-AC-Z1



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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.
- Eravant 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 (0.92 ± 0.05 Nm), should be applied. **Torque wrench, model SCH-08008-S1, is highly recommended.**