# SKD-0524334560-KFKF-A3

## SPDT PIN Switch with TTL Driver, 0.5 to 43 GHz, Absorptive

#### **Description:**

**Model SKD-0524334560-KFKF-A3** is an absorptive PIN diode based, single pole, double throw (SPDT) switch with a TTL driver that operates between 500 MHz and 43 GHz. This model offers a typical insertion loss of 4.5 dB and 60 dB port-to-port isolation with a typical switching speed of 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 Set
- Switching Network

## **Electrical Specifications:**

Parameter	Minimum	Typical	Maximum
Frequency	0.5 GHz		43.0 GHz
Insertion Loss		4.5 dB	
Return Loss		10 dB	
Isolation		60 dB	
Operational RF Input Power			+20 dBm
Damage RF Input Power			+27 dBm
Bias Voltage		±5 V <sub>DC</sub>	
Bias Current		100/50 mA	11 - 24
Control		TTL	
Switching Speed		100 ns	
Specification Temperature		+25 °C	
Operation Temperature	-45 °C	ahay I	+85 °C
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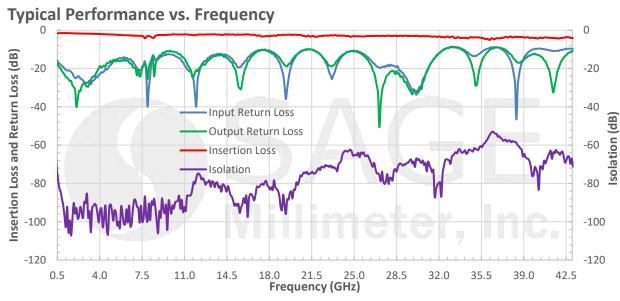
## **Mechanical Specifications:**

Specification	
K(F)	
K(F)	
Solder Pins	
Solder Pins	
Aluminum	
Gold Plated	
1.06 Oz	
1.18" (L) X 1.00" (W) X 0.40" (H)	
KD-AC-Z1	
-	

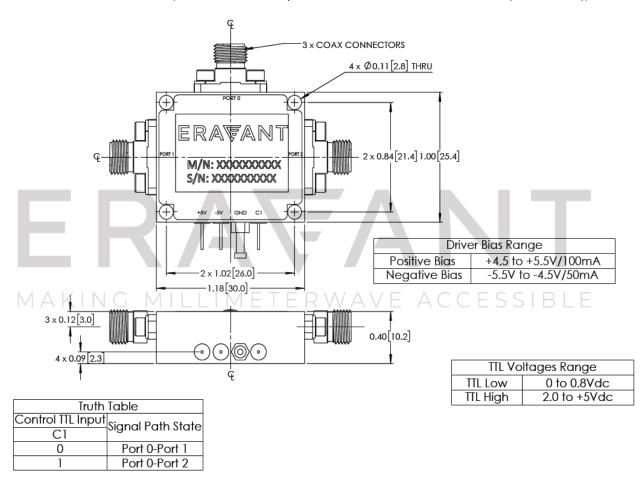


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Note: The insertion loss, isolation and return loss between other ports are similar to the above plots. **Mechanical Outline:** (Unless otherwise specified, all dimensions are in inches [millimeters])





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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.
- 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.





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