

SKS-1141741025-0606-RB

SPST PIN Switch with TTL Driver, Reflective

SKS-1141741025-0606-RB is a D-Band, single pole single throw reflective switch. The switch exhibits 1 dB typical insertion loss and 25 dB nominal isolation across the frequency range of 110 to 170 GHz. The control voltage of the standard model is TTL. The RF input and output ports are WR-06 waveguides with UG-387/U-M anti-cocking flanges, and a female SMA coaxial connector provides the control signal.



Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	110 GHz		170 GHz
Insertion Loss		1.0 dB	
Isolation		25 dB	
Power Handling		+16 dBm	
Bias Voltage		±5 V	
Bias Current		1 mA	
Control Signal		TTL	
Switching Speed		100 ns	
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

Mechanical Specifications:

Item	Specification
RF Ports	WR-06 Waveguide with UG-387/U-M Anti-Cocking Flange
TTL	SMA (F)
Bias Interface	Solder Pin
Material	Aluminum
Finish	Gold Plated
Outline	KS-RD-A-2

ECCN

EAR99

FEATURES

- Full Band Coverage
- Low Insertion Loss
- High Isolation
- Fast Control Speed

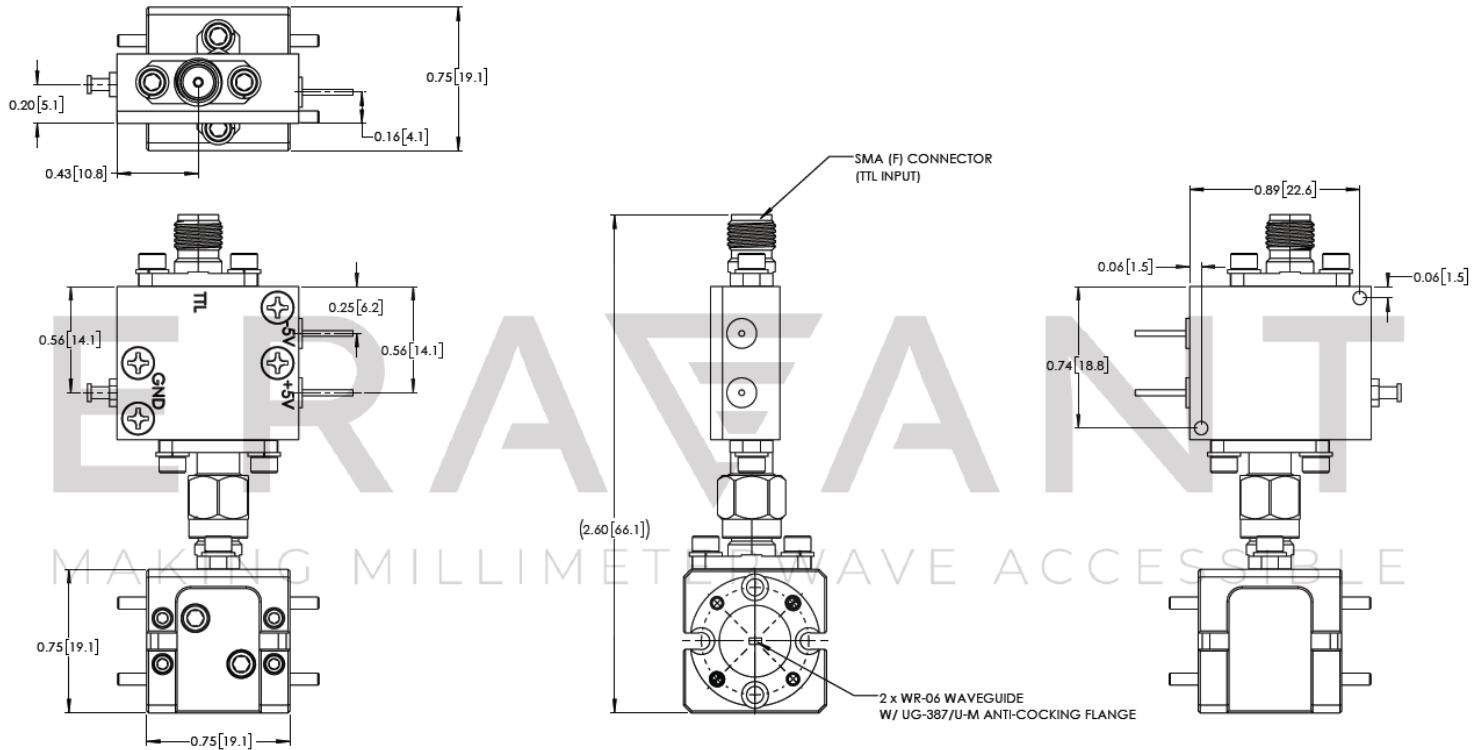
APPLICATIONS

- Radar Systems
- Communication Systems
- Testing Equipment

SUPPLEMENTAL DETAILS



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



NOTE:

- On condition that test data is provided it is collected from a sample lot. Actual data may vary slightly from unit to unit.
- All testing is performed under +25 °C room temperature.
- Photo is not representative of final device.
- Eravant reserves the right to change the information presented without notice.

CAUTION:

- Exceeding absolute maximum ratings shown will damage the device.
- The device is static sensitive. Always follow ESD rules when working with the device.
- Any foreign objects in the waveguide will cause performance degradation and may damage or destroy the unit.
- For 1.35 mm, 1.85 mm, 2.4 mm, 2.92 mm, and SMA connectors proper torque should be applied: 8.0 ± 0.15 inch-pounds (0.90 ± 0.02 Nm). Torque wrench model SCH-08008-S1 is highly recommended.