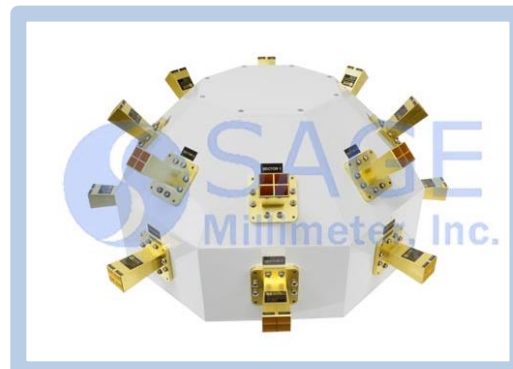




Ka Band Beam Switchable Receiver Assembly, 64 Channel

Description:

Model SSR-2830233605-28-S1 is a Ka Band receiver with four 16, total 64 channels receive paths. The receiver can be operated at the frequency range 27 to 29 GHz. Each 16 channel receiver path utilizes an SP16T with 100 ns switching speed and 50 dB isolation for 360° coverage in the horizontal plane and 90° coverage in the vertical plane. The receiver can be paired with the **SST-2830231719-28-S1** for 5G and object detection etc. applications.



Features:

- Ka Band Operation
- 360° Coverage
- Good Channel Isolation

Applications:

- 5G Applications
- Telecommunications
- Object Detections

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Antenna 3 dB Beamwidth, E Plane		45°	
Antenna 3 dB Beamwidth, H Plane		45°	
Antenna Gain		11 dBi	
Antenna Polarization	Linear		
RF Frequency Range	27 GHz	28 GHz	29 GHz
Receiver Gain		5 dB	
Receiver Noise Figure		3.6 dB	
Channel Isolation		50 dB	
Switch Speed		100 ns	
System Gain		16 dB	
DC Supply Voltage	+5 V _{DC} /1,800 mA; -5 V _{DC} /800 mA		
Specification Temperature		+25 °C	
Operating Temperature	+10 °C		+40 °C

Mechanical Specifications:

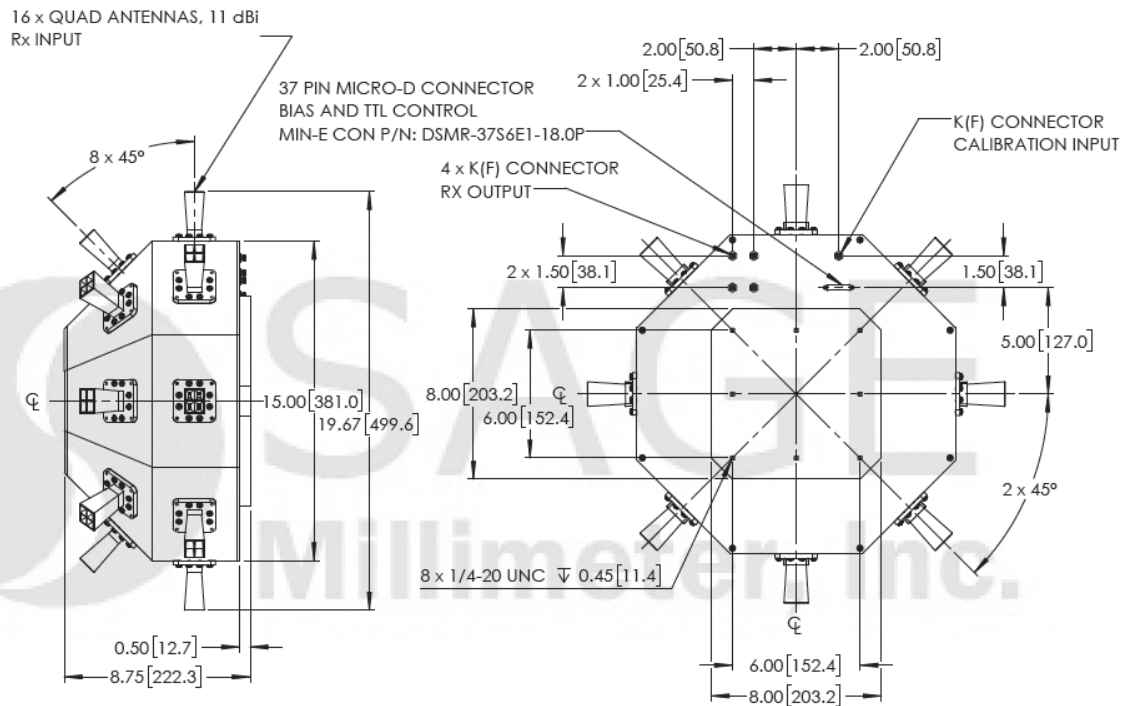
Item	Specification
RF Input Port (64X)	WR-28 Waveguide with Custom Flange (when 11 dBi Antenna is removed)
RF Output Port (4X)	K(F) Connector
Calibration Port	K(F) Connector
Bias and TTL Connector	37 Pin Micro-D Connector
Material	Aluminum
Weight	25 lbs
Finish	White Paint
Size	19.67" (W) x 8.75" (H)
Outline	SK-RA-C1





Ka Band Beam Switchable Receiver Assembly, 64 Channel

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



Note:

- SAGE Millimeter, Inc. reserves the right to change the information presented without notice.

Caution:

- The device is static sensitive. Always follow ESD rules when working with the device.
- Wrong bias or reverse bias on the receiver will damage the device.
- Any foreign objects in the horn antenna will cause performance degradation and possible device damage.

