

## Ka Band Beam Switchable Transmitter Assembly, 7 Channel

### Description:

**Model SST-2830231719-28-S1** is a Ka Band transmitter with seven antenna outputs and one coaxial output for calibration. The transmitter can be operated at the frequency range 27 to 29 GHz. The transmitter utilizes an SP8T with 100 ns switching speed for a total coverage of 126°. The transmitter can be paired with the **SSR-2830233605-28-S1** for measuring signal strength for 5G and object detection etc. applications.



### Features:

- Ka Band Operation
- 126° Coverage
- Good Channel Isolation

### Applications:

- 5G Applications
- Telecommunications
- Object Detections

### Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Antenna 3 dB Beamwidth, E Plane		18°	
Antenna 3 dB Beamwidth, H Plane		18°	
Antenna Gain		20 dBi	
Antenna Polarization		Linear	
RF Frequency Range	27 GHz	28 GHz	29 GHz
Transmitter Gain		19 dB	
Transmitter P-1dB		17 dBm	
Channel Isolation		30 dB	
Switch Speed		100 ns	
System Gain		39 dB	
DC Supply Voltage	+5 V <sub>DC</sub> /220 mA; -5 V <sub>DC</sub> /50 mA		
Specification Temperature		+25 °C	
Operating Temperature	+10 °C		+40 °C

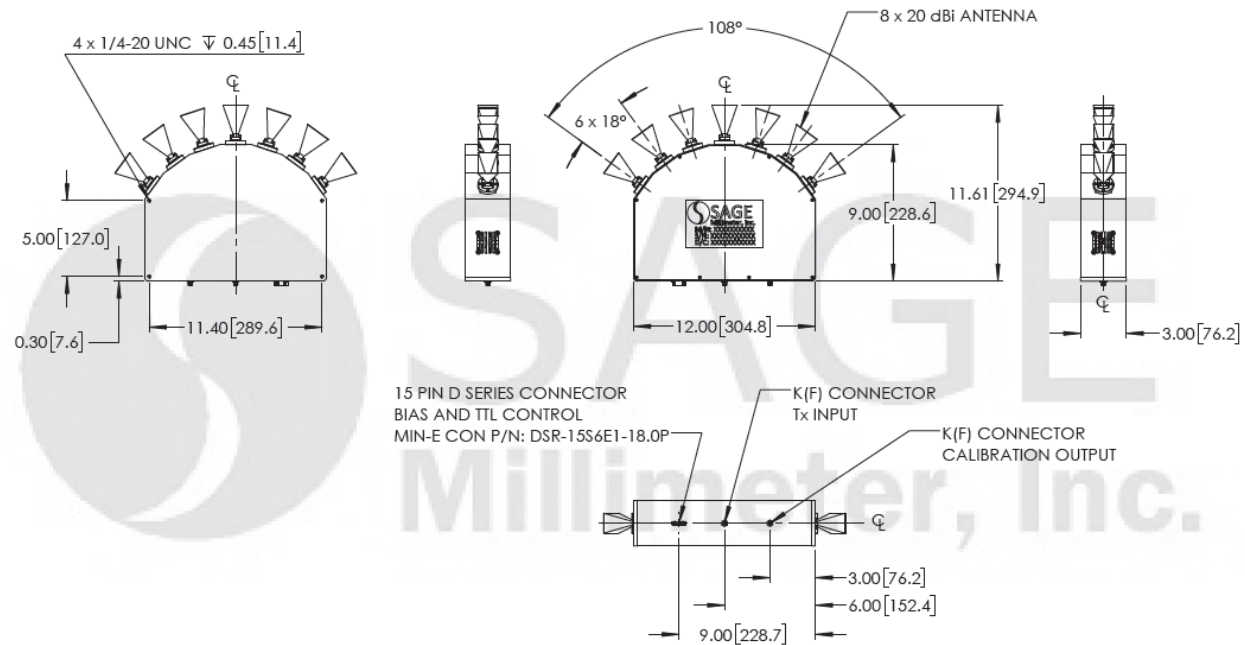
### Mechanical Specifications:

Item	Specification
RF Output Port (7X)	WR-28 Waveguide with UG-599/U Flange (when 20 dBi Antenna is removed)
RF Input Port (1X)	K(F) Connector
Output Calibration Port	K(F) Connector
Bias and TTL Connector	15 Pin Micro-D Connector
Material	Aluminum
Weight	8 lbs
Finish	White Paint
Size	11.61" (L) x 12.00" (W) x 3.00" (H)
Outline	SK-TA-C1



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**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.