SST-2730223027-28-S1-1

Advanced

26.8 GHz Integrated Transmitter Module

Description:

Model SST-2730223027-28-S1-1 is a Ka Band compact transmitter module operating at 26.8 GHz. The module incorporates a phase locked oscillator to convert 1.0 GHz signal to 26.8 GHz signal. A robust filtering system greatly reduces the harmonic and spurious levels, making the module a great choice for ground, ground to air and many other communication applications.

Features:

- 26.8 GHz Operation
- High Linear Output Power

Applications:

- Communication Systems
- Ground to Satellite systems

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
TX Frequency Range	26.7 GHz		26.9 GHz
TX Output P_{1dB}	+27 dBm	+29 dBm	
IF Frequency Range	0.9 GHz		1.1 GHz
IF to TX Gain		23 dB	
IF P_{in}	0 dBm	+4 dBm	+8 dBm
IF Input VSWR		1.5:1	
Harmonics		-50 dBc	
Spurious		-60 dBc	
Phase Noise	-80 dBc/Hz @ 1 KHz; -90 dBc/Hz @ 10 KHz and -100 dBc/Hz @ 100 KHz		
DC Supply Voltage		+8 V_{DC}/1.5 A	
Specification Temperature		+25 ˚C	
Operating Temperature	-25 ˚C		+65 ˚C

Mechanical Specifications:

Item	Specification
IF Input	SMA(F)
RF Output	WR-28 Waveguide with UG-599/U Flange
Bias and Others	Micro-D, 15 Pins (Female)
Weight	17.3 Oz
Size	3.68” (W) X 3.44” (L) X 1.2” (H)
Outline	ST-SA-CS

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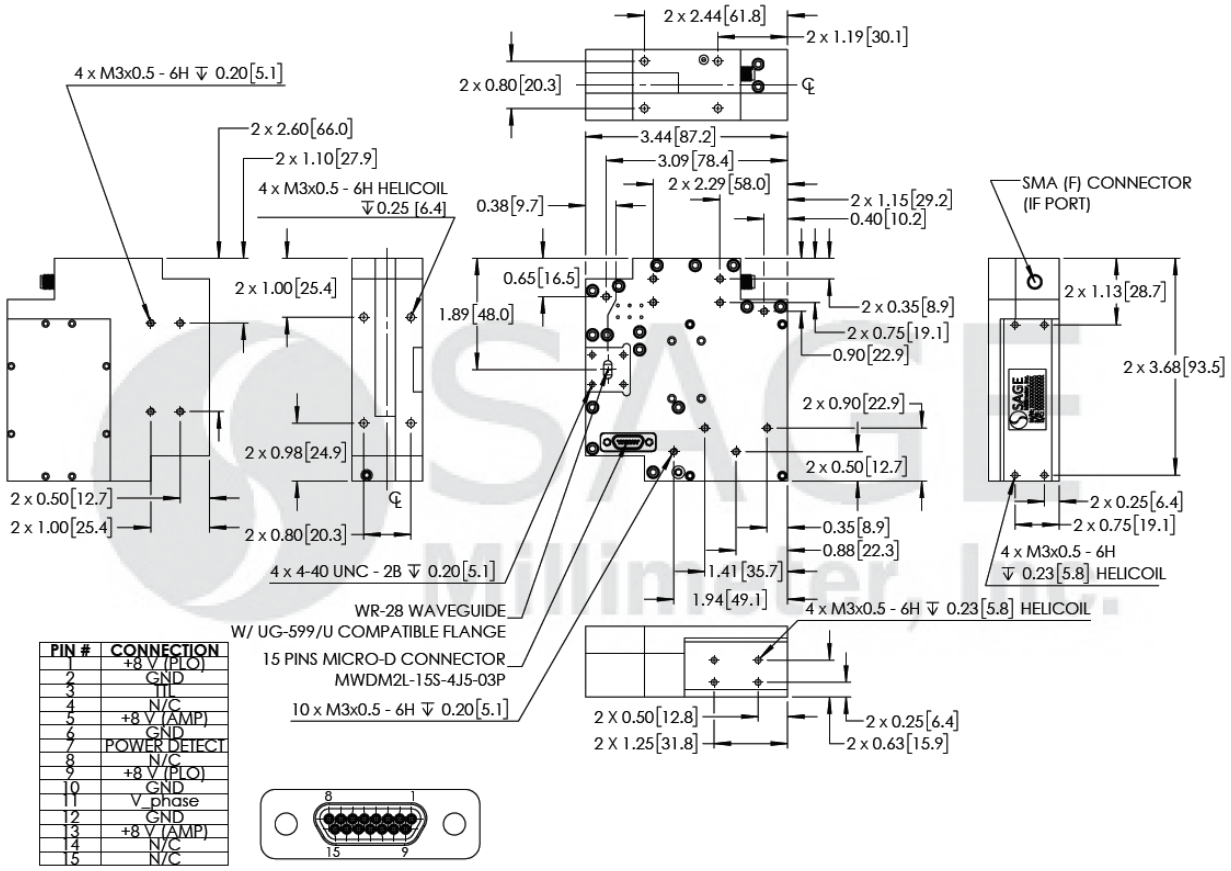
Mechanical Outline: (Unless otherwise specified, all dimensions are in inches [millimeters])



PIN #	CONNECTION
1	+8 V (PLO)
2	GND
3	TTL
4	N/C
5	+8 V (AMP)
6	GND
7	POWER DETECT
8	N/C
9	+8 V (PLO)
10	GND
11	V_phase
12	GND
13	+8 V (AMP)
14	N/C
15	N/C

Note:

- SAGE Millimeter, Inc. 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.
- The case temperature of the device shall never exceed +85˚C. Use additional heatsink or fan if necessary.

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