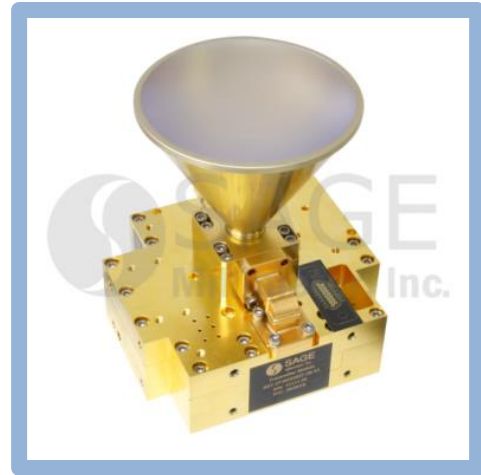


26.8 GHz Integrated Transmitter Module, Space Qualified

Description:

Model SSK-ST2730253027-28-C1 is a Ka Band compact transmitter module operating at 26.8 GHz. This product is designed and manufactured for small satellite applications. The module incorporates a phase locked oscillator to convert 1.0 GHz signal to 26.8 GHz signal. With an integrated 25 dBi circular polarized lens corrected antenna, the module delivers +50 dBm EIRP. A robust filtering system greatly reduces the harmonic and spurious levels, making the module a great choice for ground, ground to satellite and satellite to satellite communication applications.



Features:

- 26.8 GHz Operation
- High Linear Output Power
- Space Qualified

Applications:

- Communication Systems
- Small Satellite Systems
- CubeSat Systems

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Antenna 3 dB Beam-width		10°	
Antenna Side Lobes		-20 dB	
Antenna Polarization	Circular		
TX Frequency Range	26.7 GHz		26.9 GHz
TX Output P _{1dB}	+27 dBm	+29 dBm	
TX EIRP	+50 dBm	+52 dBm	
IF Frequency Range	0.9 GHz		1.1 GHz
IF to TX Linear Gain		25 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		+24 V _{DC} /0.6 A	
Case Temperature	-25 °C		+65 °C

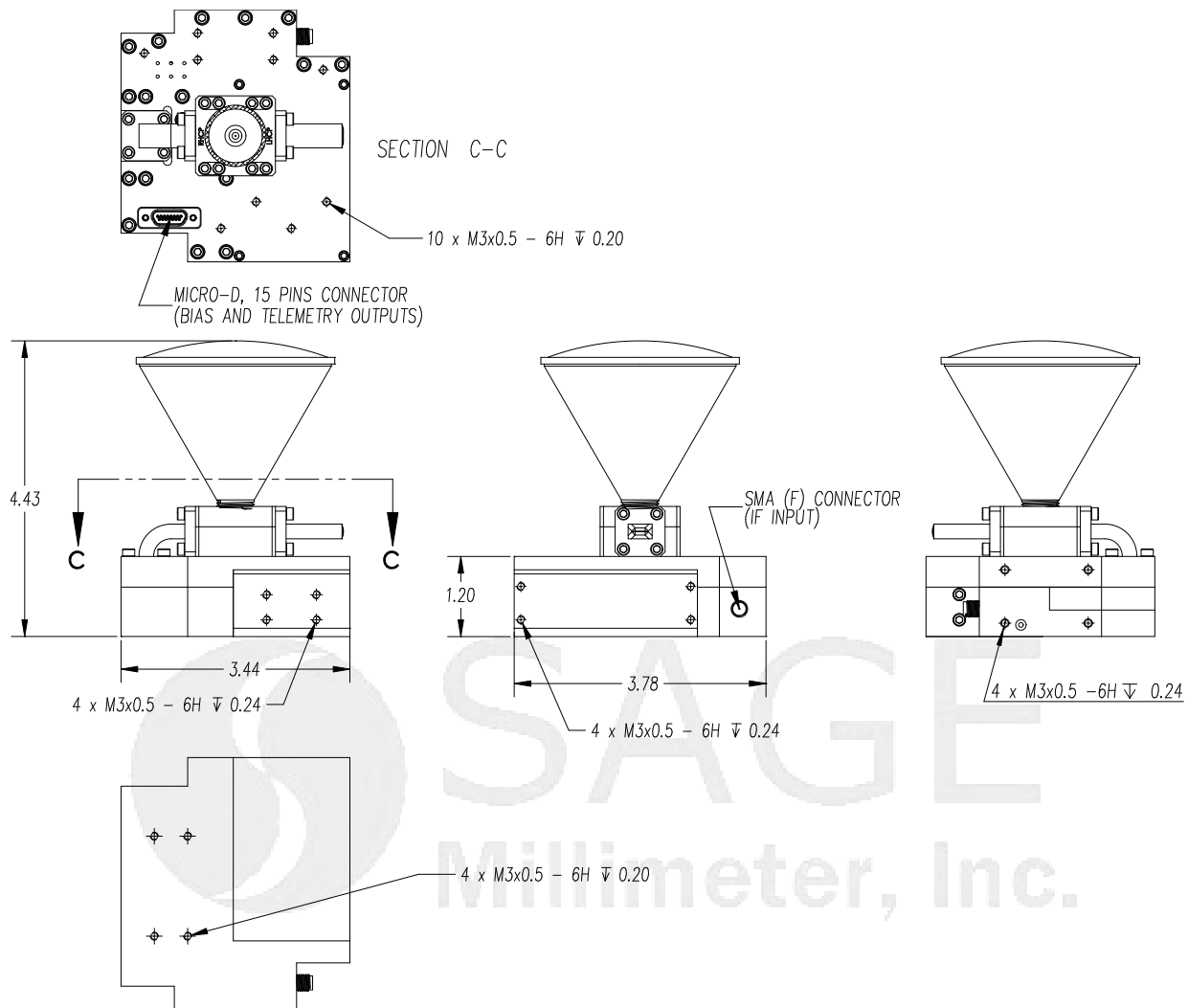
Mechanical Specifications:

Item	Specification
IF Input	SMA(F)
Bias and Others	Micro-D, 15 Pins (Female)
Size	3.78" (W) X 3.44" (L) X 4.43" (H)
Weight	24 Oz



26.8 GHz Integrated Transmitter Module, Space Qualified

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



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.