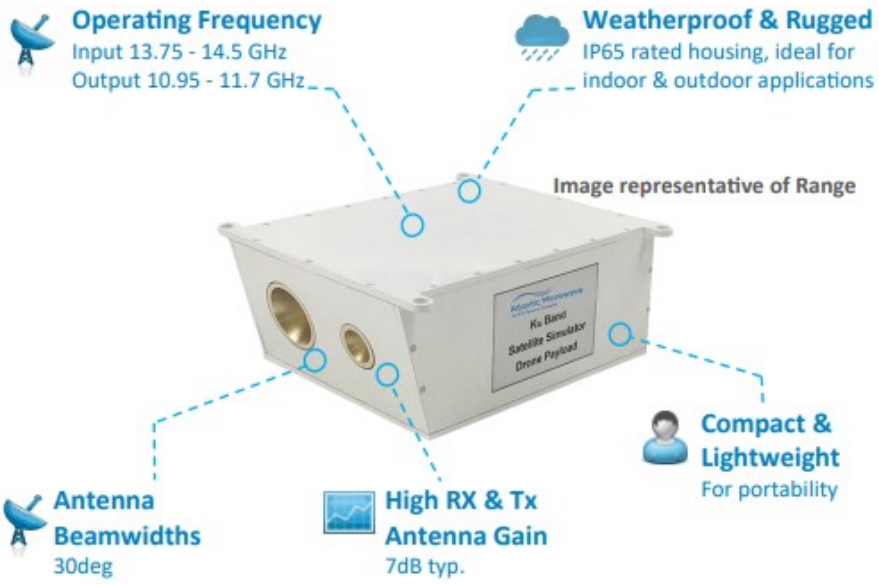
Atlantic Microwave
A Division of ETL Systems

DSS-2800-Ku

Ku-band Payload Satellite Simulator

Typical applications:
- Satcoms on the move testing
- Drone mounting
- UAV (unmanned aerial vehicle)
- Hap (high altitude platform)



General Specification	
Input frequency	13.75-14.5 GHz
Output frequency	10.95-11.7GHz
LO frequency	2800MHz
Frequency stability	+/-1 ppm
Frequency reference	100MHz internal
Frequency reference output	25dB
Conversion loss	25 dB typical (excluding antennas)
Conversion gain flatness	+/-2 dB typical
TX and RX antenna type & gains	Flat Panel Antenna, 7 dB typical
TX and RX antenna 3dB beamwidths	+/-30deg nom
Flatness	+/-2dB typ. +/- 0.5dB/40MHz max.
Signal related spurious	-25 dBc typ
LO related spurious & harmonics	-30 dBm typ
Non-signal or LO related spurious	-60 dBm min
Maximum input level	+10 dBm (at antenna port)
Polarisation	TX—vertical RX—horizontal

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Power	
Power supply	24V DC
Input power	24V DC @380 mA typical
Power supply connector	3 way Bulgin Buccaneer socket (mating plug also provided)
Environmental	
Operating temperature	-20 to +70°C
Storage temperature	-40 to +85°C
Location	Indoor and Outdoor to IP65
Physical	
Dimensions	220 x 118 x 82mm
Weight	1.8kg
Phase noise dBc/Hz (typical)	
100Hz	-55
1KHz	-75
10KHz	-95
100KHz	-100
1MHz	-105

Note 1: The specification is subject to regular reviews and will be updated from time to time as part of our continuing product development and improved spec accuracy.
Note 2: Operation beyond the quoted limits stated above may cause instantaneous and permanent damage.

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