

The TXMission™ K-band Transmitter is an innovative miniturized transmitter designed for CubeSat and other smallsat applications.

Electrical and RF Specification

Frequency range	17.8 to 20.2 GHz
Frequency tolerance	+/- 5ppm
Channel spacing	100MHz
Output power	2W
Adjacent channel power ratio	>=25dB
Spurious emissions	>60dBc
Harmonics	>30dBc
Off-carrier emissions	Spectral mask complies to ITU-R SM. 1541-3 Annex 5

SPECIFICATIONS

- Frequency range: 17.8 to 20.2GHz
- Space qualified connectors
- Radiation tolerant design
- ECSS compliant
- Output power: 2W
- Power consumption: 12W
- Power supply: 3.1 to 18V (unregulated)
- Size: 95 x 95 x 20mm
- Mass (& volume): < 0.25kg (<0.25U)
- Case material: AL 7075-T6
- Metal surface treatment: Alodine 1200S or Hard Gold on request
- RF output: waveguide WR42 with adapter K 2.92mm coax connector
- IF input: 50ff, SMP coax connector
- Operating temperature: -20°C to +70°C (non-operating: -30°C to +80°C)

Block Diagram

