

Ka-Band SATCOM ANTENNA SPECIFICATION

12.0" (30.48 cm) Aperture

P/N 501410

Frequency Bands

Receive
Transmit

Band 1
19.2 to 20.2 GHz
29.0 to 30.0 GHz

Band 2
20.2 to 21.2 GHz
30.0 to 31.0 GHz

Antenna Polarization

Receive
Transmit

LHCP or RHCP
Circular, orthogonal to the receive

Receive G/T

11 dBi/K at 30° elevation

Receive IF Output

For both Bands, 950-1950 MHz. The signal must be diplexed with a 10 MHz reference.

Receive Amplification

72 dB relative to feed input

Transmit EIRP

44.9 dBW at P1dB nominal

Transmit IF Input

For both bands, 950 to 1950 MHz. The signal must be diplexed with a 10 MHz reference.

Weight

Antenna
ACU

26 pounds maximum
4.0 pounds maximum

Power Requirements

28 Volts DC, 7 Amps

Elevation Performance

Travel Range
Velocity
Acceleration

5 degrees to 85 degrees relative to mounting plate in aircraft tail
30 degrees per second minimum
40 degrees per second per second

Azimuth Performance

Travel Range
Velocity
Acceleration

Continuous
30 degrees per second minimum
40 degrees per second per second

Environmental

Operating Temperature
Vibration/Shock

-55°C to +70°C
RTCA/DO-160G



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