RF-5100
Upper C-Band Interchangeable Frequency Module

SPECIFICATIONS

Frequency Range
5100 - 5945 MHz

RF Modulation
OFDM (64QAM, 16QAM, QPSK, BPSK)

Antenna Chains
3 Independent RF Chains

TX/RX Operating Modes
All MIMO modes from SISO to 3x3

Channel Bandwidth
5, 10, and 20 MHz

Software Configurable

Peak TCP Throughput
120 Mbps at 20 MHz Channel

MIMO Techniques
Maximal Ratio Combining
Space-Time Block Coding
Spatial Multiplexing

Max. Aggregate Transmit Power
4W (1.3W per RF Chain)

Antenna Ports
(3) SMP (50 Ohms)

TX Power Control
31 to 16.5 dBm, 0.5 dB per step

Power Control Accuracy
+/- 2 dB

Frequency Accuracy
+/- 4 ppm, max.

Minimum Receiver Sensitivity
-95 dBm at 5 MHz bandwidth, BPSK

Max. RF Input
-10 dBm

Max. RF Input without Damage
+10 dBm

Max. Peak Power Consumption, TX
50W

Power Consumption, RX
2.5W

Operating Temperature
-40°C to +85°C

ESD Protection
+/- 8KV Contact discharge, per IEC 61000-4-2

FCC Certification
FCC Part 15, Subpart B
FCC Part 15, Subpart E, 15.407, for UNII band I and III

Japan Type Certification
Article 2, Paragraph 1, Item 72
Category RB (Unmanned Mobile Image Transmission System)

Dimensions
3.8 x 2.6 x 0.5 in.
9.7 x 6.6 x 1.3 cm

Weight
4.6 oz.
130 g