RF-1100
L-Band Interchangeable Frequency Module

SPECIFICATIONS

Frequency Range
1350 - 1390 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
150 Mbps at 20 MHz Channel

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

Max. Aggregate Transmit Power
6W (2W per RF Chain)

Antenna Ports
(3) SMP (50 Ohms)

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

Power Control Accuracy
+/- 2 dB

Frequency Accuracy
+/- 4 ppm, max.

Spurious Output, Harmonic
-53 dBc

Spurious Output, Non-Harmonic
-65 dBc

Minimum Receiver Sensitivity
-98 dBm at 5 MHz bandwidth, BPSK

Max. RF Input
-20 dBm

Max. RF Input without Damage
+10 dBm

Max. Peak Power Consumption, TX
40W (3 Chains @ 6W)

Power Consumption, RX
1.9W (3 Chains)

Power Consumption, Standby
0.15W

Operating Temperature
-40°C to +85°C

ESD Protection
+/- 8KV Contact discharge, per IEC 6100-4-2

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

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