

WJ1000A

mmWaveJudge Remote Receiver

Specifications:

These specifications describe the performance parameters and the main specifications of the WJ1000A mmWaveJudge Remote Receiver.

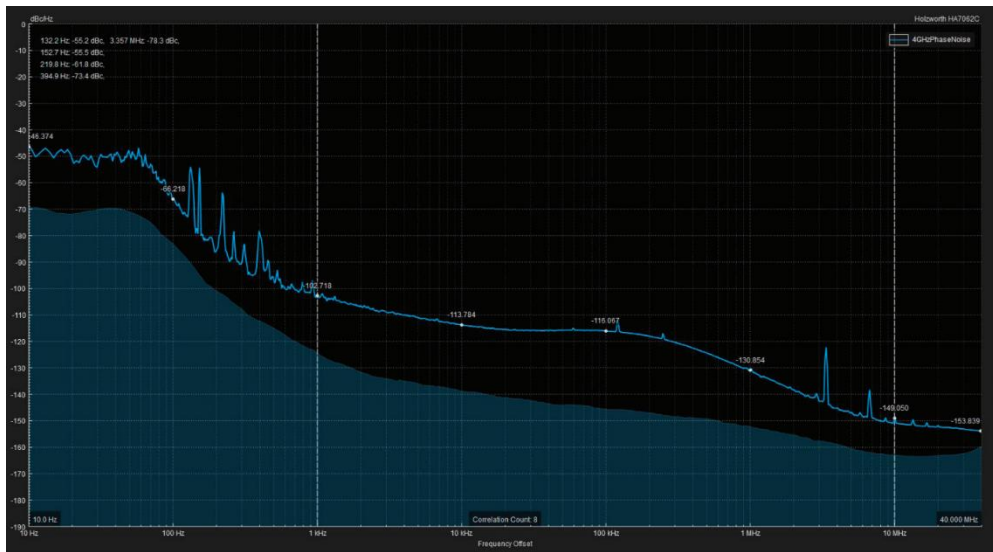
WJ1000A mmWaveJudge remote receiver

SPECS	IF output		LO input		RF input	
	Freq (GHz)	Connector	Freq (GHz)	Connector	Freq (GHz) (IF+LO*2)	Connector
Receiver						
24-30 GHz	3-11	2.92 mm	24-30	2.92 mm	24-30	1.85 mm
37-42.5 GHz	7.4-8	2.92 mm	37-42.5	2.92 mm	37-42.5	1.85 mm

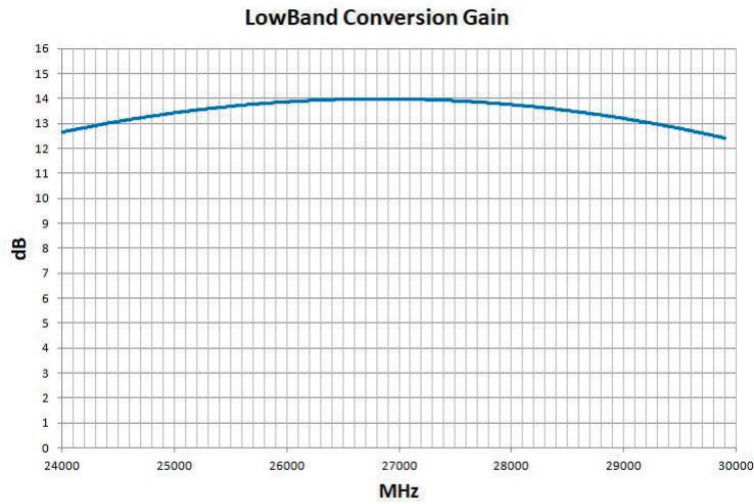
Specification	Data
Receiver	24 GHz to 30 GHz band and 37 GHz to 42.5 GHz band
mmWave bandwidth	800 MHz
mmWave input IP3	-5 dbm
mmWave input ideal power level	<-25 dbm for good linearity
mmWave input P1 db	-9 dbm
mmWave input (50 ohms single-ended) return loss	-13 db
SSB noise figure	6 db
phase noise (normalized to 4 GHz)	Next slide
conversion gain	Next slide
absolute maximum ratings for mmWave input power	0 dbm
LO input	2.6 GHz to 4.7 GHz provided from Sanjole 5G card LO OUT port
IF output	2.6 GHz to 4.7 GHz fed into Sanjole 5G card RF IN port
Power	via USB-C connection to Sanjole RXJudge module

Specification	Data
Connectors	LO: 2.92 mm female connector, standard thread, 50 ohms IF: 2.92 mm female connector, standard thread, 50 ohms mm: 2.92 mm female connector, standard thread, 50 ohms USB: type C
Operation	via WaveJudge 5000 base unit software residing on connected PC
Physical dimensions	3"W X 2"H X 0.7"D (7.62 cm X 5.08 cm X 1.778 cm)

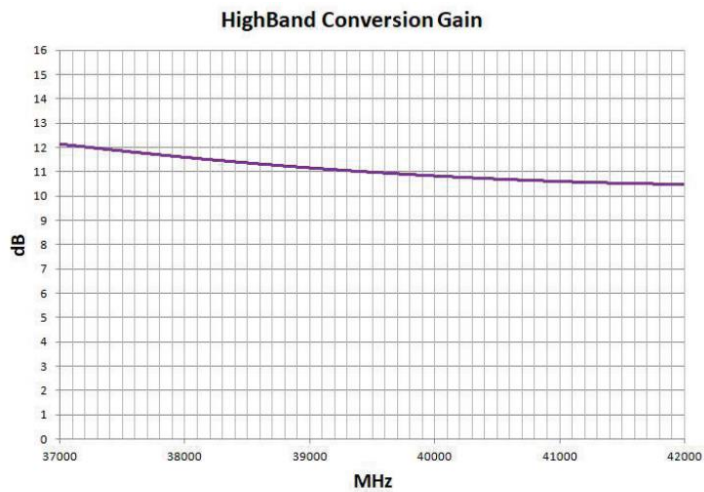
Phase noise analysis:



Conversion gain:



Low band 24 GHz to 30 GHz



High band 37 GHz to 42.5 GHz

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