

ELECTRICAL SPECIFICATIONS

1. ANTENNA

Parameters	Specification	Unit
Frequency Range	1575.420 ± 1.023	MHz
VSWR, max	2.0	-
Bandwidth, min	10	MHz
Input Impedance	50	Ω
Gain (based on 70x70mm GND plane)	4.5	dBic
Polarization	RHCP	-

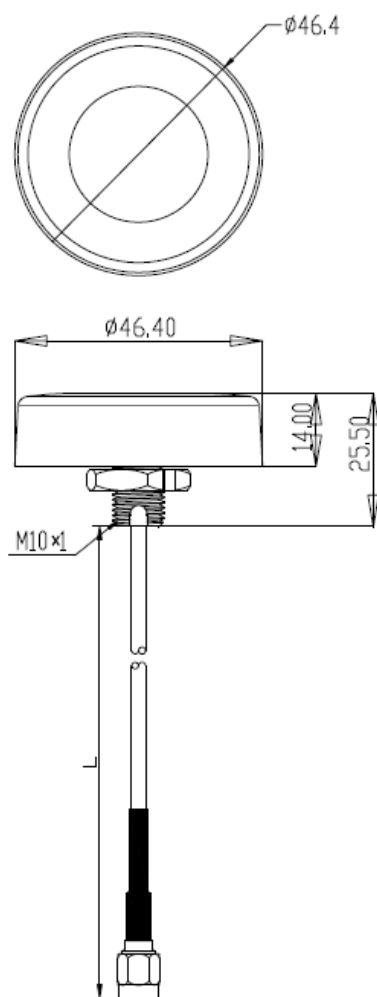
2. LNA

Parameters	Specification	Unit
Frequency Range	1575.420 ± 1.023	MHz
Module Stage Line-up	Ant – Fi11 – LNA – Fi12	-
Filter	2 pcs integrated band pass filters	-
DC Voltage	3.0 ~ 5.0	V
Gain	16 ± 2	dB
Outband Rejection, min	F _O + 50MHz	60
	F _O - 50MHz	60
VSWR, max	2.0	-
Noise Figure, max	2.0	dB
DC Current at 3V	6 ± 2	mA

3. Overall (complete module, including RF connector)

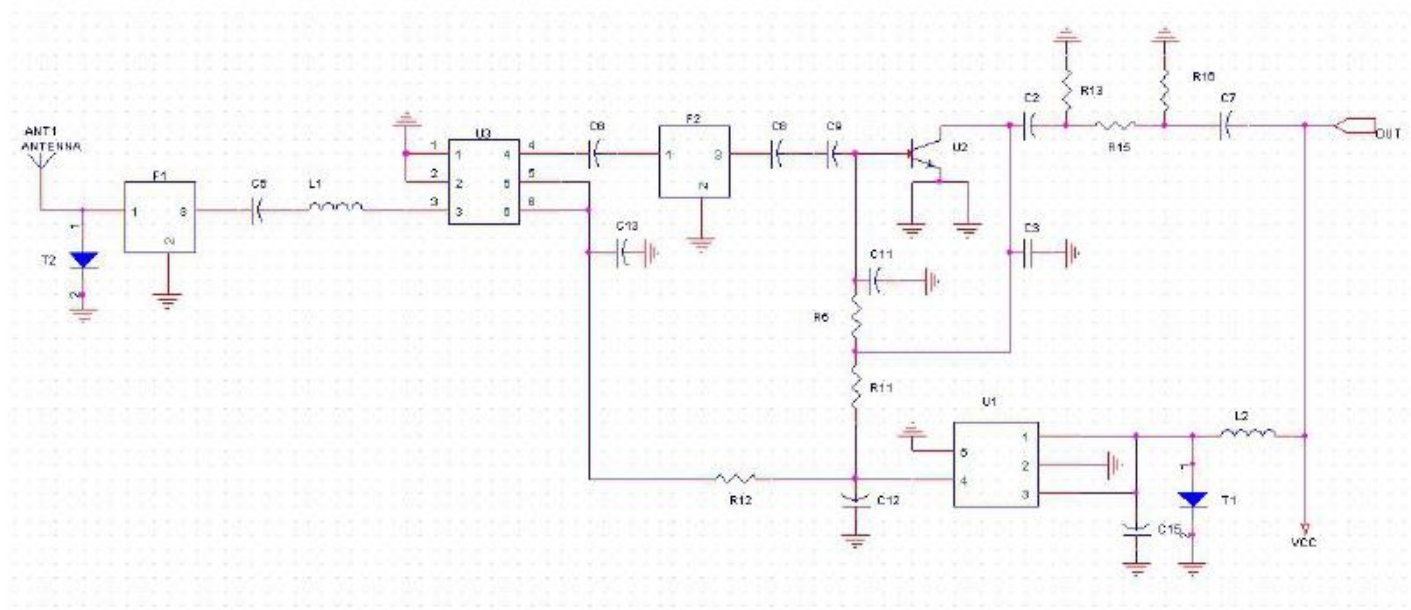
Parameters	Specification	Unit
Frequency Range	1575.420 ± 1.023	MHz
VSWR, max	2.0	-
Impedance	50	Ω
RF Connector	SMA Male	-
Cable	RG 174	-
Operating Temperature Range	-40 ~ +85	°C
Storage Temperature Range	-40 ~ +85	°C
Waterproof Grade	IP67	-

Dimensions

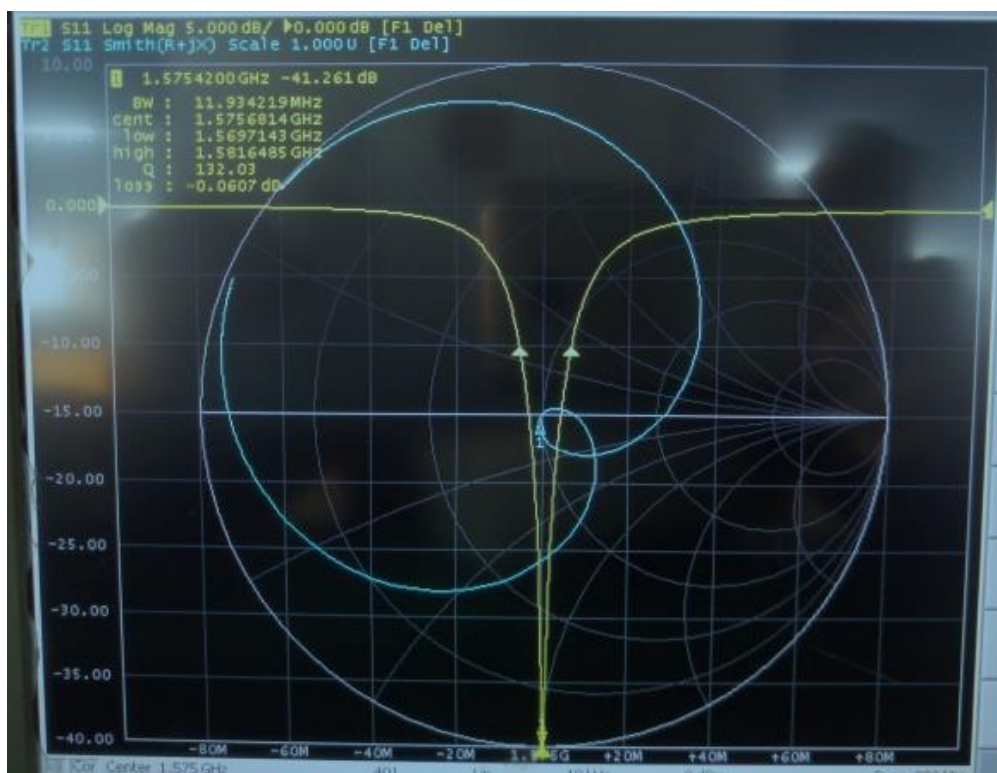


$L = 711 \pm 30\text{mm}$

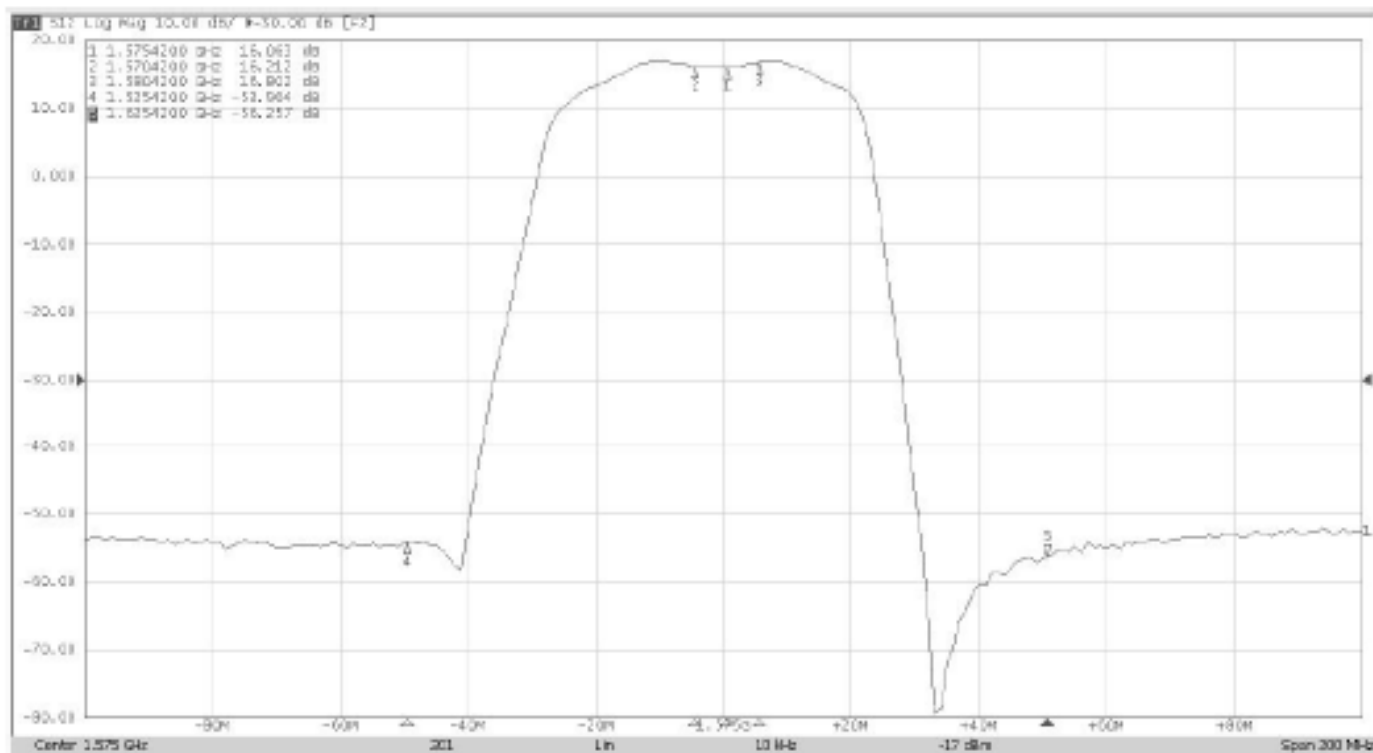
Schematic Diagram



Frequency Characteristics



LNA TEST CURVE (3V)



May, 2017

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