



QUBE 4010 series

UHF RFID Antenna

Specification

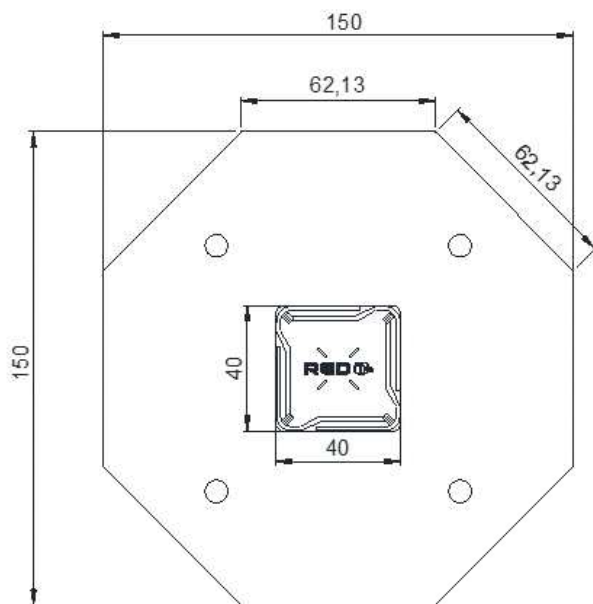
1. Part Name

QFFA4010G150

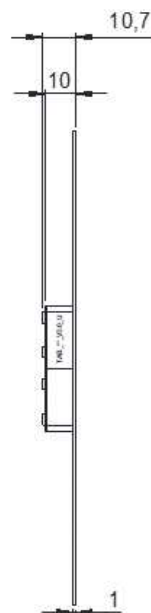
2. Electrical Specifications

Item	Specifications			
	Min.	Typical	Max.	Unit
Center Frequency (= Fc)	915	920	925	MHz
Operating Frequency		$F_c \pm 10$		MHz
Return Loss @ Operating Frequency		-15		dB
Gain [dBi]		-1.6		
Polarization	Circular			
Impedance		50		Ω
Operating Temperature	-30		+70	°C

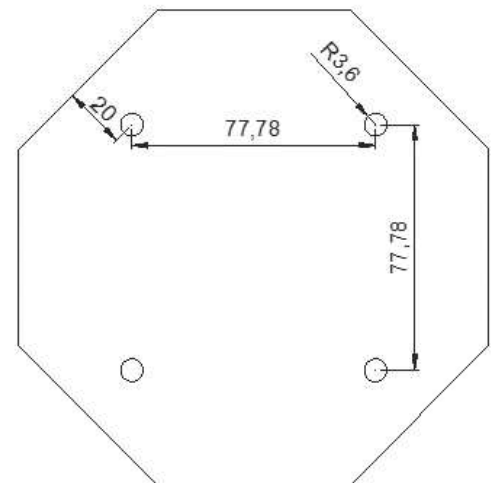
3. Dimensions



[TOP]



[SIDE]

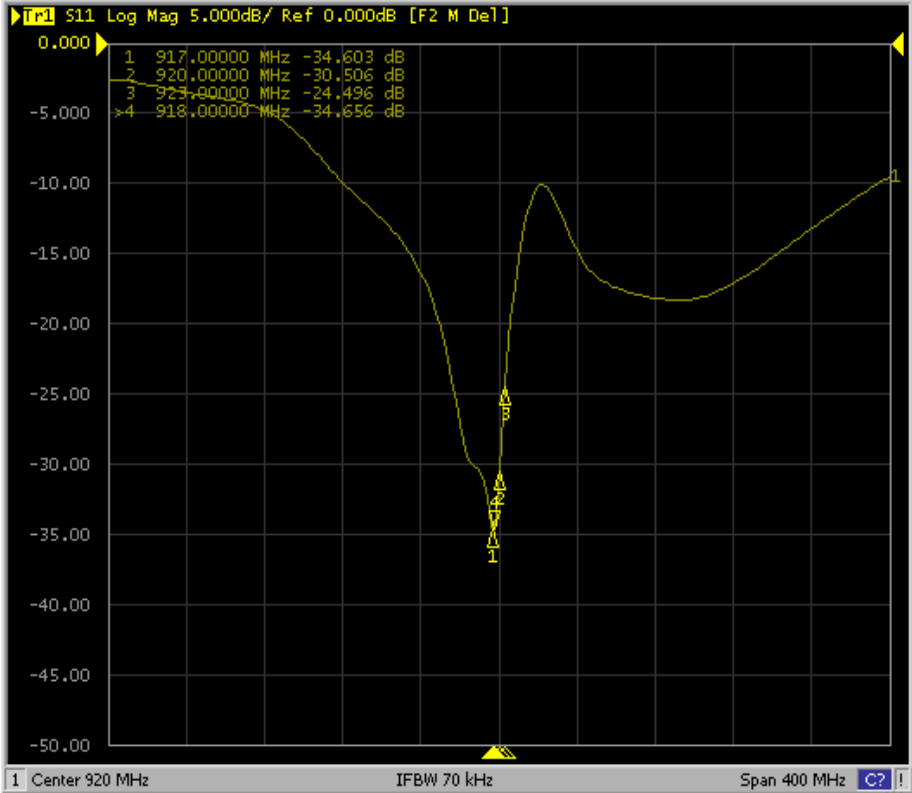


[BOTTOM]

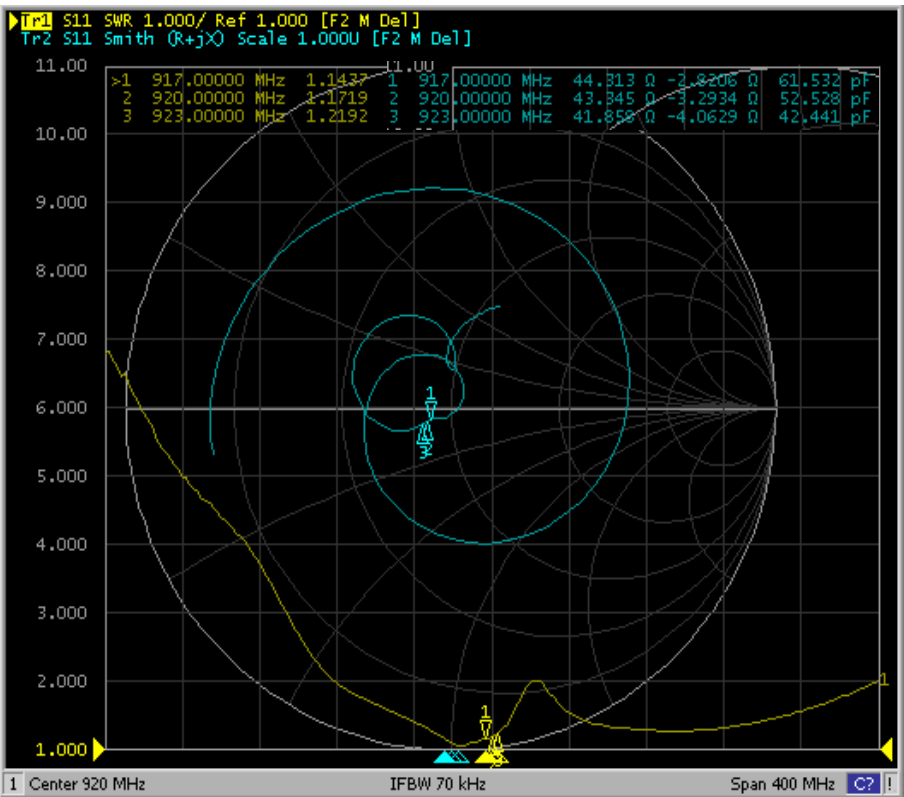
Tolerance Unless
Otherwise Specified : ± 0.2
Unit : mm

4. S-parameter Data

4.1 Return Loss



4.2 SWR & Smith Chart

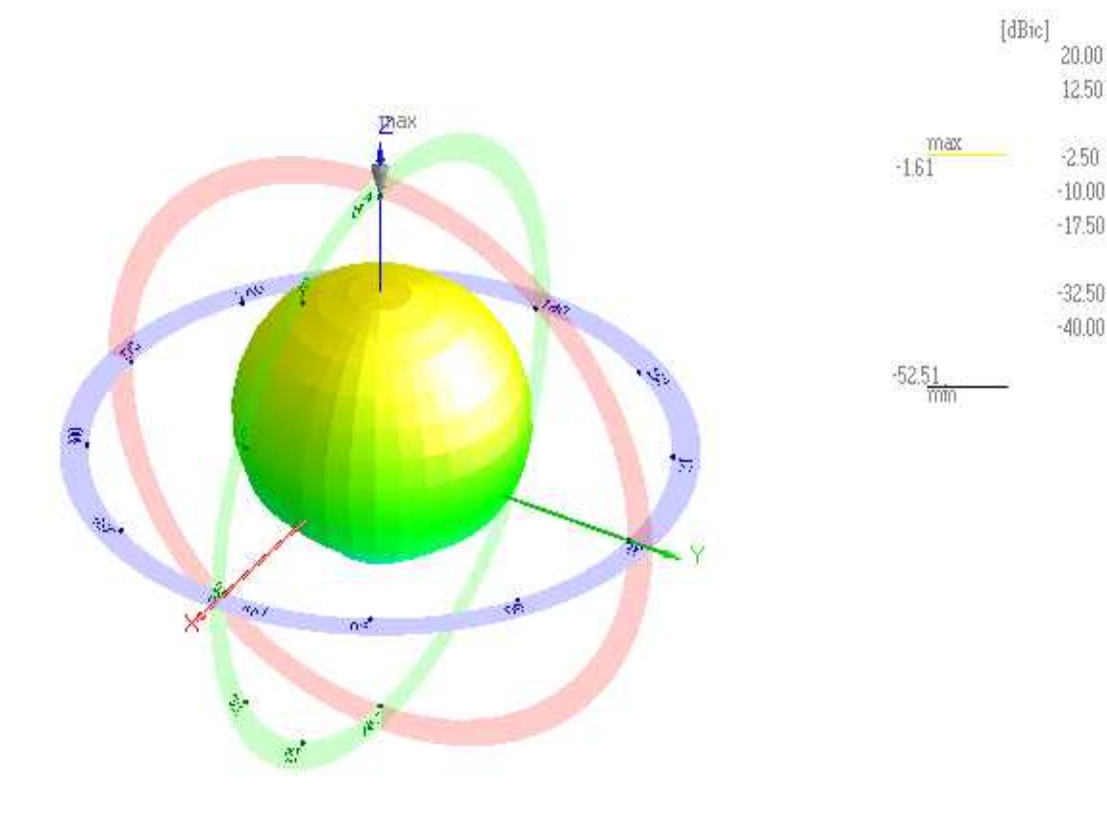


5. Antenna Chamber Data

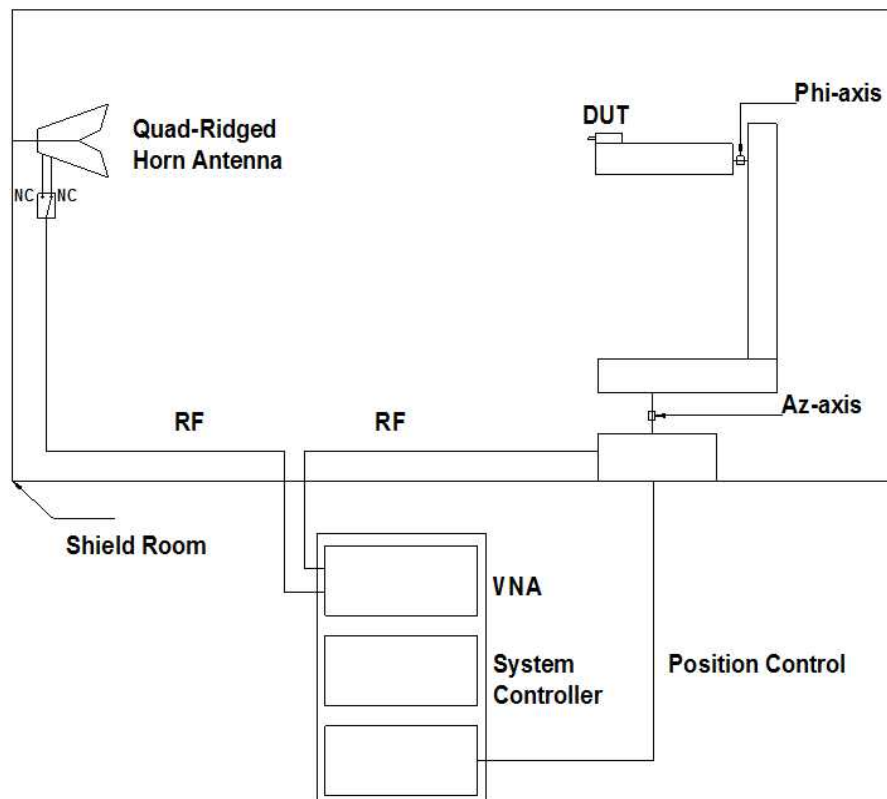
5.1 Gain (RHCP)

No.	Freq.[MHz]	Eff.[%]	Avg.[dBi]	Peak[dBi]	Theta[deg]	Phi[deg]
1	902	11.38	-9.44	-3.37	0	50
2	904	12.29	-9.1	-3.07	0	60
3	906	13.26	-8.78	-2.75	0	60
4	908	14.3	-8.45	-2.43	0	30
5	910	15.29	-8.16	-2.15	0	30
6	912	16.1	-7.93	-1.92	0	0
7	914	16.66	-7.78	-1.79	0	290
8	916	17.02	-7.69	-1.68	0	280
9	918	17.26	-7.63	-1.61	0	260
10	920	17.32	-7.61	-1.61	0	270
11	922	17.08	-7.68	-1.67	0	260
12	924	16.42	-7.85	-1.85	0	270
13	926	15.42	-8.12	-2.14	0	250
14	928	14.18	-8.48	-2.5	0	30

5.2 Radiation Pattern



5.3 Gain Measurement



6.Revision

Revision No.	Originator	Description of Change	Date of Changes
1.0.0	JJ Kim		10-Aug-21

7.Address Information

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