RFA-O5-NF3-W3GGS-028

High-Performance/Top Roof Antenna

For 3G/4G applications

Product Specification

Version	Issue date	Changes	Remark
0.1	2014/11/07	Initial Version	
0.2	2017/03/23		
0.3	2019/03/07		

IMPORTANT

This document contains important Information and therefore should not be disclosed to third parties without prior written consent of ORing technology Ltd.

Signature:

Author:	Reviewed by:	Approved by:	Remarks:
Enyi			

1. Introduction

- High performance top roof antenna with omnidirectional antenna.
- Support 3G/4G applications.
- High Performance / Wide temperature range satisfy most of operating environment.
- Rugged design suitable for railway applications and pass the test of EN50155 Railway standard.
- GPS + Glonass Active Antenna.

2. Technical specification

Items	Specification		
Antenna Type	2G/3G/4G		
	Band1	Band2	Band3
Frequency (MHz)	890~960	1710~2170	2300~2700
VSWR	≦ 2	≦ 2	≦ 2
Gain (dBi)	1.9	4.5	4.5
Impedance	50	50	50
Polarization	Vertical	Vertical	Vertical
Isolation between ports 1+2	NA	>15dB	>15dB
Connector	N-Type Female x 2		

Items	Specification
Antenna Type	GPS + Glonass Active Antenna
Frequency	GPS:1575 (MHz) Glonass:1602 (MHz)
VSWR	≦1.5
Gain (dB)	3 dB (26dB with LNA)
Impedance	50
Polarization	RHCP
Connector	N-Type Female x 1

3. Mechanical Specification:

- Dimensions (mm) 145 x 86 x 115 (Length x width x Height)
- Corrosion Low corrosion design
- Mounting Wall mounting, Pole mounting

4. Environmental Specification

- Environmental Conditions Outdoor
- Operation temperature(℃) -30° ~ 85°
- Storage temperature(℃) -40° ~ 85°
- IP rating IP67
- Solar radiation DIN 75220

5. Material Specification:

- Color Cool Gray 1C
- Material ASA / aluminum

6. Return Loss and Isolation (S11, S22, S21):

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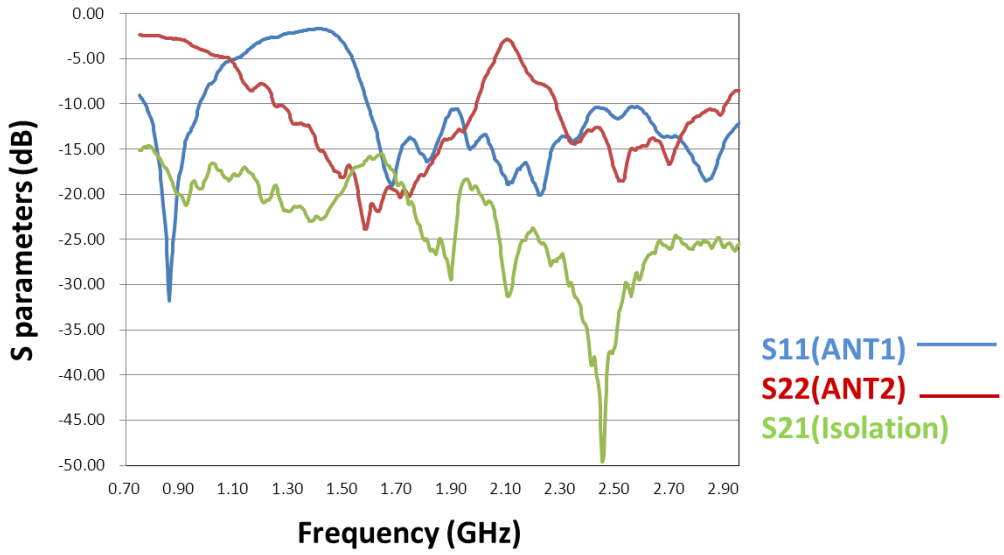

7. Radiation Patterns:

Frequency: 850MHz