



RFA-05-NF3-W3GGS-028

High-Performance/Top Roof Antenna

For 3G/4G applications

Product Specification

Version	Issue date	Changes	Remark
3.1	2014/11/07	Initial Version	
3.2	2017/03/23	Modified describe,	
3.3	2019/03/07	Modified describe,	

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 radiation pattern.
- ◆ Support 3G/4G applications..
- ◆ High Performance / Wide temperature range satisfy most of operating environment.
- ◆ Rugged design suitable for railway applications, meets EN50155 Railway standard.
- ◆ GPS + Glonass Active Antenna.

2. Technical specification

Items	Specification		
Antenna Type	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

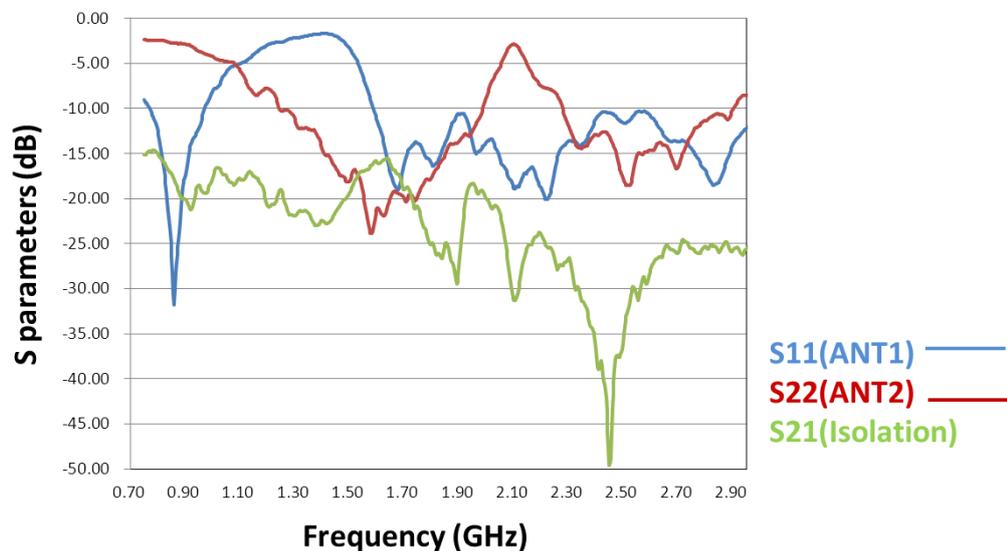
4. Environmental Specification

- ◆ Environmental Conditions Outdoor
- ◆ Operation temperature(°C) -30° ~ 85°
- ◆ Storage temperature(°C) -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):



7. Radiation Patterns: 



Frequency: 850MHz

