

G-2RE3

GPS/GLONASS/QZSS/Galileo Ceramic 25x25x4mm Antenna

SMT

GNSS

The GPS/GLONASS/QZSS/Galileo Ceramic Surface Mount (G-2RE3) is designed with a high degree of standards for global navigational connectivity and no compromise on efficiency. The compact size G-2RE3 outperforms any competitor within GPS, QZSS, Galileo and GLONASS standards.

With directional hemispherical radiation pattern and peak gain of 4 dBi, the G-2RE3 operates within 1561-1602 MHz frequencies and is the best solution for tracking/mapping devices, industrial machinery, sea vessels, air/automobile navigation and any compatible devices that require constant global connectivity with precision guidance.



25 x 25 x 4 mm

Document Information

Product	G-2RE3
Part Number	G-2RE3
Description	GPS/GLONASS/QZSS/Galileo Ceramic 25x25x4mm Antenna
Version	2.0 (current)
Date	04-July-2023
Status	Released

Revision History

Version	Date	Author	Changes
1.0	16-Dec-2020	Amy Li	Initial Release
2.0	04-July -2023	Hazel Xu	New layout and design

Product Overview

Product Description

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Key Features

- Passive GNSS Ceramic Antenna
- Through-hole Mounted
- Ground Plane Dependent
- Easy to integrate
- RoHS Compliance

Applications

- Automotive Navigation
- Tracking / Mapping Devices
- Surveying Equipment
- Sea Vessels
- Automobiles/Transportation

Electrical Specifications

Frequency			VSWR	Peak Gain	Efficiency
GNSS	1561	MHz	1.5	4.0 dBi	80%
GPS	1575	MHz	1.5	4.0 dBi	80%
GLONASS	1602	MHz	1.5	4.0 dBi	80%

Antenna

Frequency Range 1561 ~ 1602 MHz

Impedance 50 Ω

Polarization RHCP

Band Width CF $\pm$ 5 MHz

Radiation Pattern Hemispherical

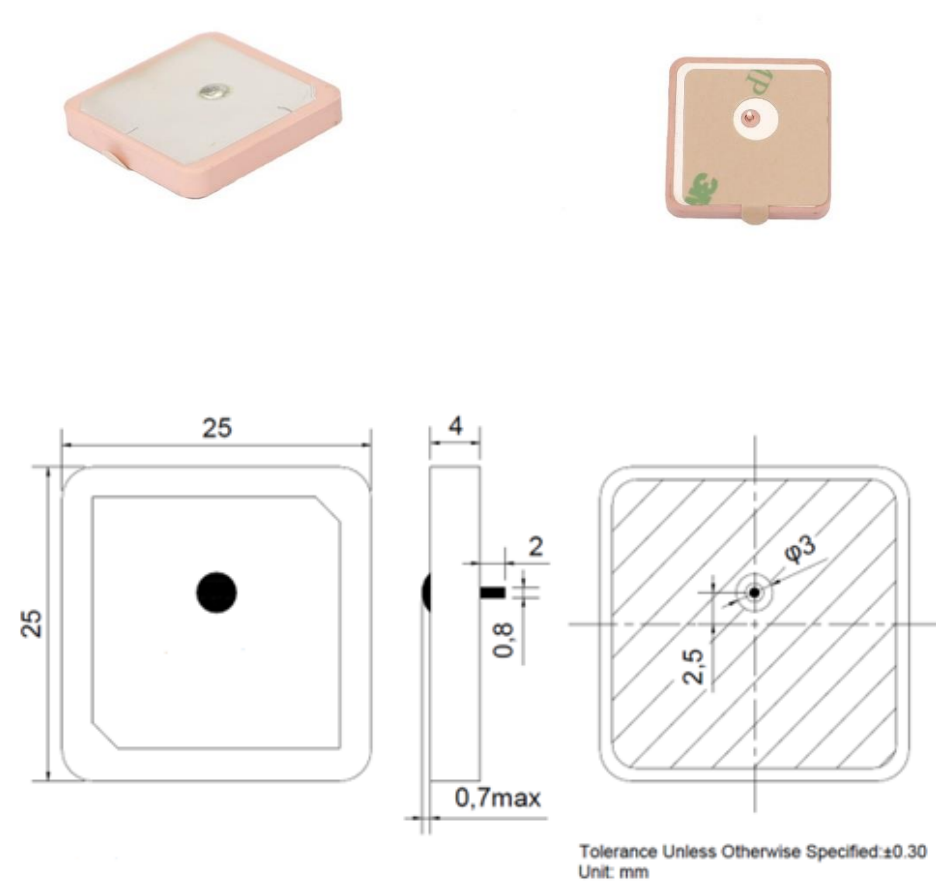
Mechanical Specifications

Type	Internal	Casing	NA
Dimensions	25x 25 x 4 mm	Color	Yellow
Connector (Termination)	NA	Material	Ceramic
Mounting Type	Through-hole Mounted	Weight	TBC (to be confirmed)

Caution:

- 1. Do not apply excess mechanical stress to the component body or terminations. Do not attempt to re-form or bend the components, as this will cause damage to the component.
- 2. Do not expose the component to an open flame.
- 3. This specification applies to the functionality of the component as a single unit. Please ensure the component is thoroughly evaluated in the application circuit.

Product Image and Dimensions



Environmental Data

Operating Temperature	-40 °C to +85 °C
Storage Temperature	-40 °C to +85 °C
IP Rating	NA
Compliance	RoHS

Ordering Information

Product Variants

Part Number	Description
G-2RE3	GPS/GLONASS/QZSS/Galileo Ceramic 25x25x4mm Antenna

About MIOT

Miot Wireless Solutions, headquartered in Suzhou, China, was established in 2017. It has subsidiaries in Canada, the United States, Brazil, and EMEA. MIOT is a professional designer and manufacturer of Antennas and IoT PCBA products, providing turn-key service to customers worldwide.

Our talented R&D team has experienced antenna, hardware, and software engineers who can participate in your new project, from something simple like antenna/selection and design, to complete turn-key services, which entails taking your concept and ideas through design, prototyping, debugging, certification, and manufacturing. Miot offers reliable products at reasonable prices with fast delivery times to help you get ahead in the market.

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