

G-2RE4

GPS/GLONASS/QZSS/Galileo Ceramic 18x18x4mm Antenna

SMT

GNSS

The GPS/GLONASS/QZSS/Galileo Ceramic Surface Mount (G-2RE4) is designed with a high degree of standards for global navigational connectivity and no compromise on efficiency. The compact size G-2RE4 outperforms any competitor within GPS, QZSS, Galileo and GLONASS standards. With directional hemispherical radiation pattern and peak gain of 3 dBi, the G-2RE4 operates within 1575-1606 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.



18 x 18 x 4 mm

Document Information

Product	G-2RE4
Part Number	G-2RE4
Description	GPS/GLONASS/QZSS/Galileo Ceramic 18x18x4mm Antenna
Version	2.0 (current)
Date	30-April-2023
Status	Released

Revision History

Version	Date	Author	Changes
1.0	16-Dec-2020	Amy Li	Initial Release
2.0	30-April-2023	Amy Li	New layout and design

Product Overview

Product Description

The GPS/GLONASS/QZSS/Galileo Ceramic Surface Mount (G-2RE4) is designed with a high degree of standards for global navigational connectivity and no compromise on efficiency. The compact size G-2RE4 outperforms any competitor within GPS, QZSS, Galileo and GLONASS standards. With directional hemispherical radiation pattern and peak gain of 3 dBi, the G-2RE4 operates within 1575-1606 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.

Key Features

- Passive GNSS Ceramic Antenna
- SMT Patch Embedded Antenna
- Ground Plane Dependent
- High Efficiency
- Easy to integrate

Applications

- Tracking / Mapping Devices
- Industrial Machinery
- Sea Vessels
- Air Navigation
- Automobiles/ Transportation

Electrical Specifications

Frequency			VSWR	Peak Gain	Efficiency
BDS	1561	MHz	1.2	3.3 dBi	70%
GPS	1575	MHz	1.2	3.3 dBi	70%
GLONASS	1602	MHz	1.1	3.4 dBi	60%

Antenna

Frequency Range 1561 ~ 1602 MHz

Impedance 50 Ω

Polarization RHCP

Band Width CF $\pm$ 3 MHz

Radiation Pattern Hemispherical

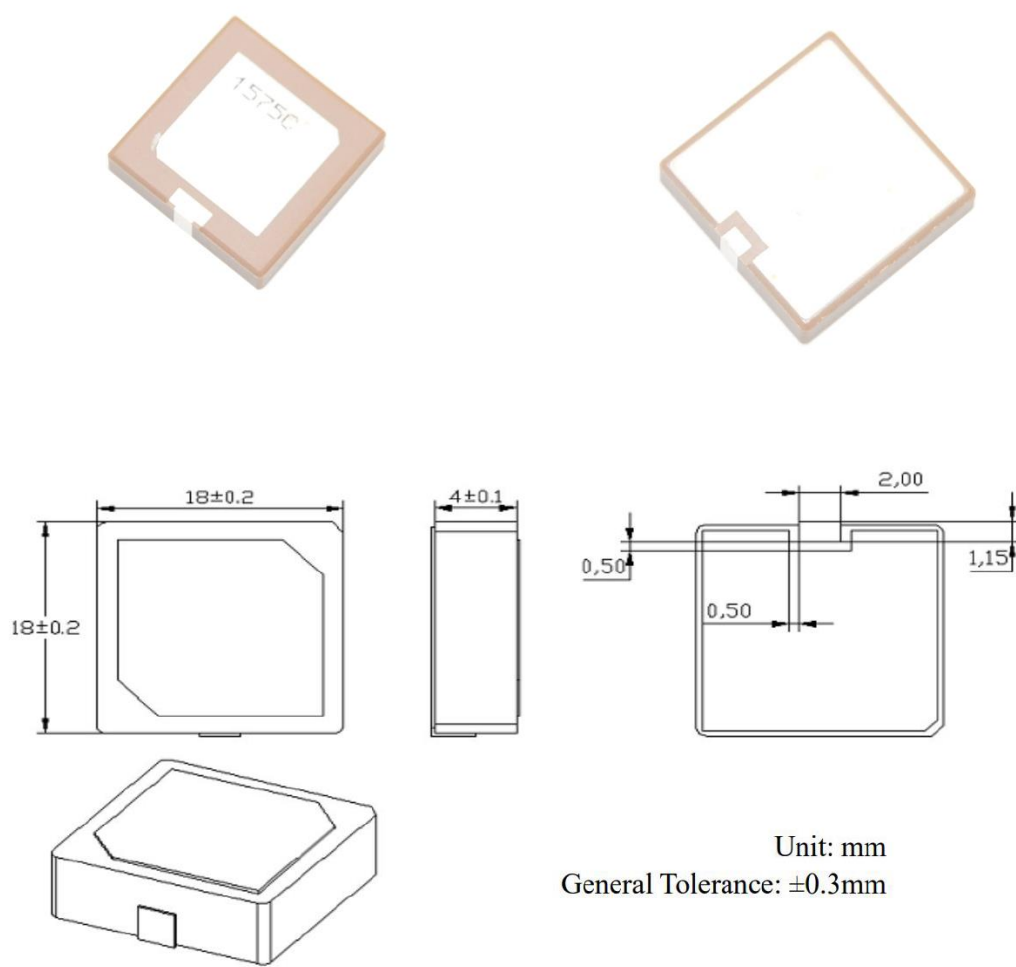
Mechanical Specifications

Type	Internal	Casing	NA
Dimensions	18 x 18 x 4 mm	Color	Yellow
Connector (Termination)	NA	Material	Ceramic
Mounting Type	Surface Mount	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-2RE4	GPS/GLONASS/QZSS/Galileo Ceramic 18x18x4mm 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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