



## 3-in-1 Cellular, GNSS and Iridium Magnetic Mount Antenna

### Description

#### The Highest Reliability In Global Mobility Connection

The Cellular, GNSS and Iridium Magnetic Mount (2J6552MGF) is a 3-in-1 configuration antenna that offers 2G, 3G, GPS, QZSS, Galileo, GLONASS and Iridium standards in a single compact housing antenna. The 2J6552MGF brings reliable, constant global connectivity ideal for tracking/mapping devices, automotive navigation, commercial transportation, machine to machine connectivity and global video, voice and data communications.

The Cellular Antenna (Cable 1) is designated for connections within 2G and 3G standards. Designed with an omni-directional radiation pattern, it provides 360-degree horizontal radiation pattern and allows for efficient operations within the 824MHz-960MHz and 1710MHz-2170MHz frequencies spectrum. This antenna is designed to improve long-range signal strength allowing for uninterrupted connectivity, better signal quality, and reliability.

The GNSS Ceramic Active Antenna (Cable 2) is designed for reliable navigational connectivity within GPS, QZSS, Galileo and GLONASS standards. With hemispherical radiation pattern, the 2J6552MGF navigation antenna operates within 1575.42MHz and 1598MHz-1606MHz frequencies. The GNSS Ceramic Active Antenna offers access to multiple satellite constellations improving accuracy, redundancy and consistently with maximum mobility.

The Iridium Antenna (Cable 3) is designed for Iridium standards. The 2J6552MGF operates within 1616MHz-1627MHz frequencies. The Iridium antenna offers the most reliable global connectivity on the market including poles, oceans, and airways. This antenna is ideal for worldwide voice and data communication, satellite equipment and other transceiver devices.

Suggested Applications- Automotive connectivity- Multimedia, navigation and telematics systems- V2V and V2X applications- Fleet management- HD video and audio streaming- Emergency communication Installation / Environmental

For external and internal applications, the antenna is manufactured from ABS UV stable material, protecting the antenna from temperatures between -40C and 85C. This magnetic mount antenna is easy to install with maximum durability. All cables come with SMA-Male connector type and 300cm LMR100 standard cable length and are fully customizable by offering additional connector types, cable lengths, and cable types. The 2J6552MGF is RoHS compliant with complete IK09, IP67 and IP69 certification.

Standards 2G and 3G

Frequency 824-960, 1710-2170  
VSWR ~2.4:1, ~1.5:1  
Efficiency (%) ~39.4, ~40.7  
Peak Gain (dBi) ~1.6, ~2.7  
Impedance (Ohm) 50  
Polarisation Linear  
Max. Input Power (W) 25  
Standards IRIDIUM  
Frequency 1616-1627  
Passive Gain (dBi) ~4.5  
Efficiency (%) ~76  
Impedance (Ohm) 50  
Axial Ratio (dB) 3 max  
Radiation Pattern Hemispherical  
Polarization RHCP  
Standards GPS/QZSS/Galileo/GLONASS  
Frequency 1575.42, 1598-1606  
Impedance (Ohm) 50  
Active Gain (dB) 28 @ 2.7 V  
Saw Filter Type Pre-Filter  
Voltage (V) 1.5 – 3.6  
Current (mA) 9 @ 2.7 V  
Power Consumption (mW) 24.3 @ 2.7V

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