



Discus 3-in-1 5GNR Cellular, GNSS and Iridium Screw Mount Antenna

Description

The Highest Reliability In Global Mobility Connection

The Cellular, GNSS and Iridium Screw Mount (2J6552BGF) is a 3-in-1 configuration antenna that offers 5G NR, 4G LTE, 2G, 3G, GPS, QZSS, Galileo, GLONASS and Iridium standards in a single compact housing antenna. The 2J6552BG 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 5G NR Cellular Antenna (Cable 1) is designated for connections within 5G NR, 4G LTE, 2G, 3G standards. Designed with an omni-directional radiation pattern, it provides 360-degree horizontal radiation pattern and allows for efficient operations within the 617MHz-5925MHz frequencies spectrum. This antenna is designed to improve long-range signal strength allowing for uninterrupted connectivity, better signal quality, and reliability.

The Iridium Antenna (Cable 2) is designed for Iridium standards. The 2J6552BGF 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.

The GNSS Ceramic Active Antenna (Cable 3) is designed for reliable navigational connectivity within GPS, QZSS, Galileo and GLONASS standards. With hemispherical radiation pattern, the 2J6552BG 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.

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 with a combination of ABS UV stable and ceramic materials, protecting the antenna from temperatures between -40C and 85C. With the anti-rotation mechanism and ground plane dependence, this screw 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 2J6552BGF is RoHS compliant with complete IK09, IP67 and IP69K certification.

Technologies 5G, 4G, 3G and 2G

Standards 5GNR/4GLTE/FirstNet/CBRS/LPWA/CAT-X/CAT-Mx/CAT-NBx/NB-IoT/3G/2G

Frequency 617-960, 1427-2690, 3300-5000, 5150-5925

Return Loss (dB) ~-7.5, ~-9.7, ~-11.2, ~-14.2

VSWR ~3.3:1, ~2.3:1, ~2.1:1, ~1.7:1

Efficiency (%) ~22.4, ~20.0, ~15.5, ~16.4

Peak Gain (dBi) ~-1.5, ~-1.5, ~-1.3, ~0.6

Impedance (Ohm) 50

Polarisation Linear

Max. Input Power (W) 25

Radiation Pattern Omni-Directional

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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nick