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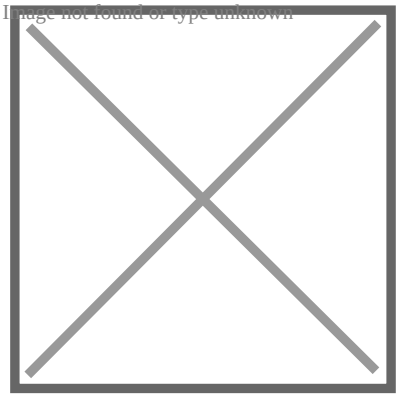

GPS/GLONASS and Iridium Screw Mount Embedded Dual Antenna

Description

Bringing Flexibility And Exceptional Accuracy To The Next Generation Of Global Communication
The GPS/GLONASS and Iridium Screw Mount Embedded Dual Antenna (2JP0133BGF) offers a 2-in-1 configuration bringing the next generation of global communication within GPS, QZSS, Galileo, GLONASS and Iridium standards. The hemispherical radiation pattern provides a full range connectivity between 1575 MHz – 1627 MHz frequencies. This embedded dual antenna offers an alternative solution where communication devices cannot use external antennas due to ergonomic, aesthetic or severe environmental conditions found in transportation, defense, marine, agriculture and navigation markets.
The GNSS Ceramic Active Antenna (Cable 1) offers exceptional reliability within GPS, QZSS, Galileo and GLONASS standards and offers uninterrupted signal strength within 1575.42 MHz and 1598 MHz – 1606 MHz frequencies. This low-profile antenna offers front-end SAW filter, high active gain of 28 db @ 2.7 V, low noise figure of 1.8 dB @ 2.7 V and low power consumption of 24.3 mW @ 2.7 V. Used for both receiving and transmitting applications, the GNSS Ceramic Active Antenna allows much longer cable runs through the integrated amplifier (AMP) maximizing the overall RF power. With U.FL standard connector type, 100 mm standard cable length and 1.37 mm Mini-Coax standard cable type, the 2JP0133BGF can be fully customized with a wide range of alternative connection types, cable types and cable lengths.
The IRIDIUM Ceramic Antenna (Cable 2) offers the most reliable global connectivity for Iridium standards on the market and brings optimal signal quality within 1616 MHz – 1627 MHz frequencies. With a peak gain of ~4.5 dBiC and ~76% efficiency, the IRIDIUM Ceramic Antenna is the ideal solution for worldwide satellite voice and data communication in commercial, residential, emergency and transportation markets. This antenna is right hand circularly polarized (RHCP) rejecting multi-path interference and optimizing signal strength.
Suggested Applications- Commercial/ Residential- Critical Communications- Transportation / Geolocation (GPS)- Satellite Data/ Voice Communications- Defense- Marine- Agriculture- M2M Devices Installation / Environmental
The 2JP0133BGF offers the advantages of embedded antennas with reduction in size, design flexibility (customizable), protection against environmental changes, durability, reliability and high signal clarity. The high-quality ceramic housing assures the 2JCP0133BGF maintains durability and protection in extreme environments withstanding temperatures between -40C and 80C. With low-profile dimensions

(74 x 45 x 8.8 mm), ground plane independence and efficient screw mount the antenna can be easily installed where challenging PCB designs are required. This product is manufactured with RoHS compliance and complete Iridium certification.

Standards GPS/QZSS/Galileo/GLONASS
Frequency 1575.42, 1598-1606
Impedance (Ohm) 50
Active Gain (dB) 28 @ 2.7 V
Voltage (V) 1.5 – 3.6
Current (mA) 9 @ 2.7 V
Power Consumption (mW) 24.3 @ 2.7V
Saw Filter Type Pre-Filter
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

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