

Wideband Terminal Antenna

DESCRIPTION

The ProShotG antenna, a Shot Glass Style Omni Mobile Antenna, is engineered to provide wideband coverage across a broad frequency range of 617 - 7200 MHz. This makes it suitable for 2G/3G/4G and 5G networks, WiFi 6E and WiFi 7 networks, as well as IoT and M2M applications, among others. Its wideband capabilities ensure the antenna is versatile for a wide range of applications.

The ProShotG is designed for easy mounting and is weatherproof, with IP67 and IK10 ratings. Its omnidirectional pattern and wideband frequency coverage makes it perfect for worldwide use. Whether it is for vehicles, industrial settings, cellular modems/routers, or M2M applications, the ProShotG stands out.

- Wideband Omni LTE/5G Coverage: 617 - 7200 MHz
- Input Power: Capable of handling up to 50 W
- High quality enclosure rated IP67 for water and dust ingress and IK10 for impact
- Easy mounting with a single through-hole stud with cable/pigtail
- ECE R118.02 approved cable on pigtail version
- Multiple antennas can also be used together for MIMO applications
- For optimal performance in the low band, a ground plane (500 x 500 mm) is recommended.



SPECIFICATIONS

| Electrical                  |                                      |                  |                 |                 |
|-----------------------------|--------------------------------------|------------------|-----------------|-----------------|
| Model                       | ProShotG                             |                  |                 |                 |
| Frequency                   | 617 - 698 MHz                        | 698 - 960 MHz    | 1710 - 4200 MHz | 4200 - 7200 MHz |
| Antenna Type                | Wideband radiator                    |                  |                 |                 |
| Max. Input Power            | 50 W                                 |                  |                 |                 |
| Efficiency                  | > 85%                                |                  |                 |                 |
| Polarisation                | Vertical                             |                  |                 |                 |
| Pattern Type                | Omnidirectional                      |                  |                 |                 |
| Impedance                   | 50 Ω                                 |                  |                 |                 |
| Gain                        | See radiation diagrams below         |                  |                 |                 |
| 3 dB Beamwidth              | Omnidirectional                      |                  |                 |                 |
| VSWR *                      | < 2.5:1                              | < 2.0:1          | < 2.0:1         | < 2.0:1         |
| Mechanical                  |                                      |                  |                 |                 |
| Connection(s)               | 0.3 m RG 316 with SMA(m)             |                  |                 |                 |
| Materials                   | ASA                                  |                  |                 |                 |
| Colour                      | Black (RAL 9005) or White (RAL 9010) |                  |                 |                 |
| Dimensions                  | ø48 mm / 1.89 in.                    |                  |                 |                 |
| Height                      | 85 mm / 3.35 in.                     |                  |                 |                 |
| Weight                      | Approx. 200 g. / 0.44 lb.            |                  |                 |                 |
| Mounting                    | 18.5 mm / 0.73 in.                   |                  |                 |                 |
| Environmental               |                                      |                  |                 |                 |
| Operating temperature range |                                      | -40 °C to +80 °C |                 |                 |
| Ingress Protection          |                                      | IP67             |                 |                 |
| Impact Protection           |                                      | IK10             |                 |                 |

NOTE

\* Measured with 2 m [78.7 in.] of RG 58 cable on a 500 x 500 mm [19.7 x 19.7 in.] ground plane.

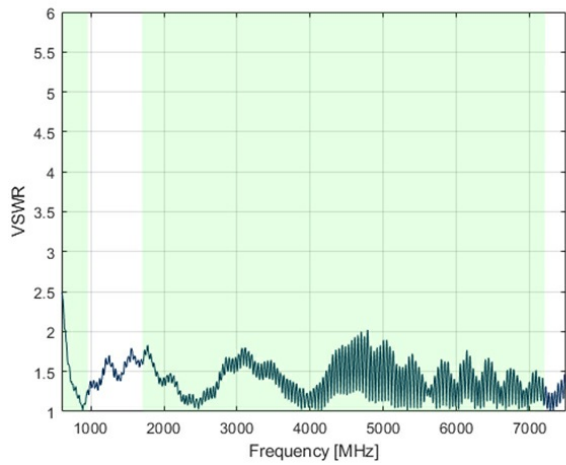
ORDERING DESIGNATIONS

Use the guide below to assign the name of the ProShotG you would like to order.

| Model Name     | Cover colour             | Cable length                                                 | Connectors                                                         |
|----------------|--------------------------|--------------------------------------------------------------|--------------------------------------------------------------------|
| ProShotG       | -W (White)<br>-B (Black) | Blank (approx. 1 foot cable length)<br>-P5 (5m cable length) | -S (SMA-M)<br>-RP-S (Reverse Polarity SMA-M)<br>FAKRA (on request) |
| Naming Example |                          |                                                              |                                                                    |
| ProShotG       | -W                       | -P5                                                          | -S                                                                 |

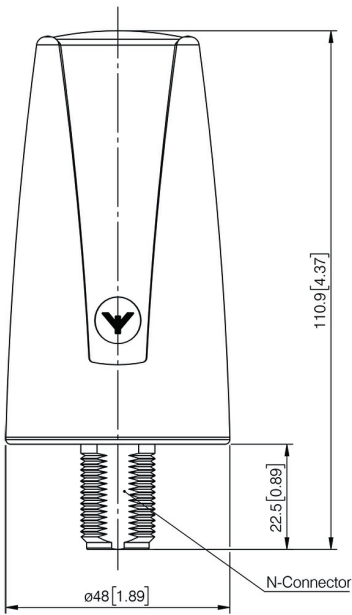
ProShotG-W-P5-S

TYPICAL VSWR CURVE



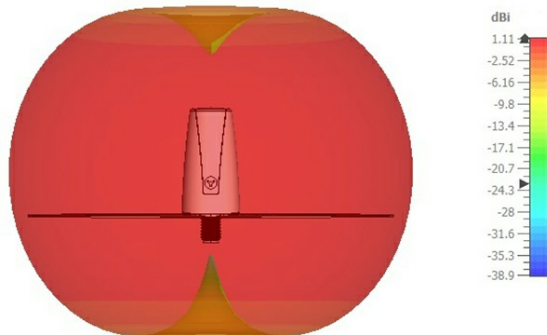
Measured with 2 m [78.74 in.] of RG 58 cable on a 500 x 500 mm [19.69 x 19.69 in.] ground plane

MECHANICAL OUTLINE

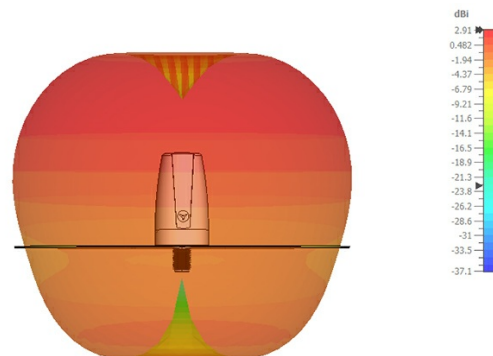


All dimensions are given in mm [in.]

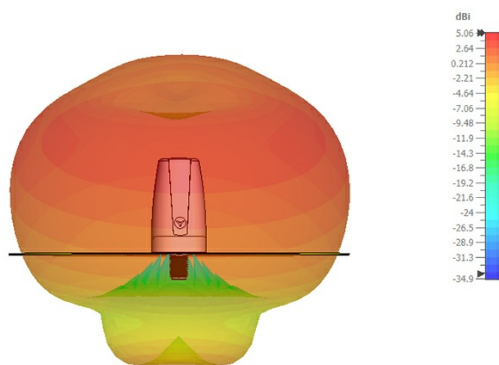
TYPICAL RADIATION PATTERN 617 MHZ



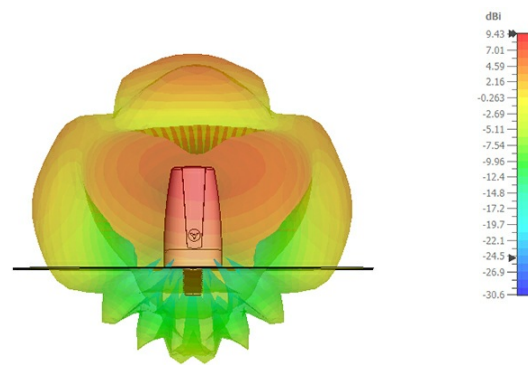
TYPICAL RADIATION PATTERN 960 MHZ



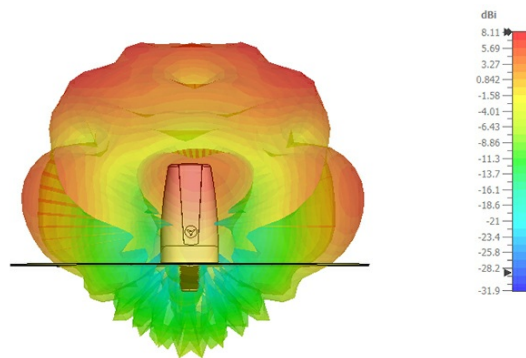
TYPICAL RADIATION PATTERN 1710 MHZ



TYPICAL RADIATION PATTERN 3800 MHZ



TYPICAL RADIATION PATTERN 6000 MHZ



TYPICAL RADIATION PATTERN 7200 MHZ

