

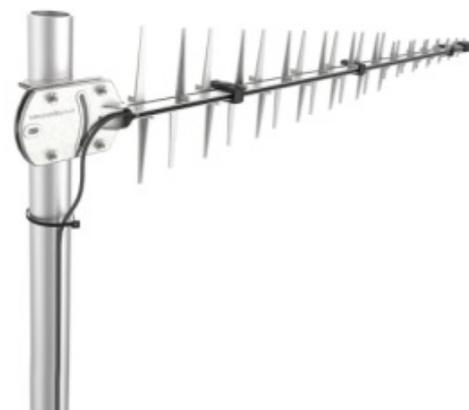
WIDEBAND LOG PERIODIC DIPOLE ARRAY ANTENNA

698-960, 1710-2700 & 3400-3800 MHz

LPDA7038 Series



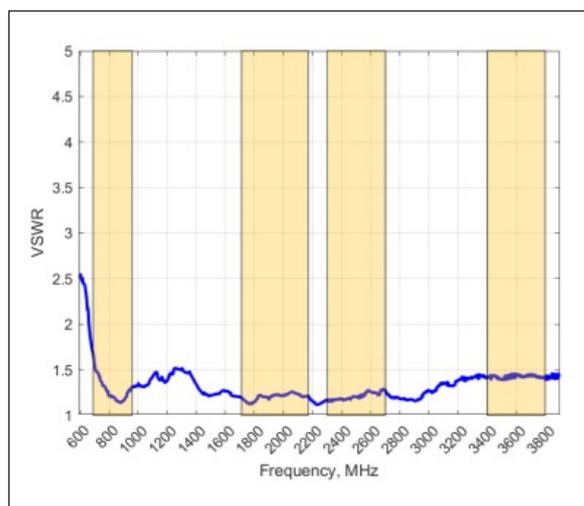
This high-gain, wideband, directional antenna covers all international cellular, mobile, and wireless data bands including GSM 900/GSM1800/UMTS/LTE & 5G bands. Its configuration is suitable for various wireless communications systems. This antenna is unique in its combination of ultra-wide-band operator with a consistent high-gain performance. It has been successfully used in extreme weather environments. A firm favourite, in any area where operators are having signal challenges. It is ideal for any application using the GSM network (LTE/HSPA/3G/EDGE/GPRS).



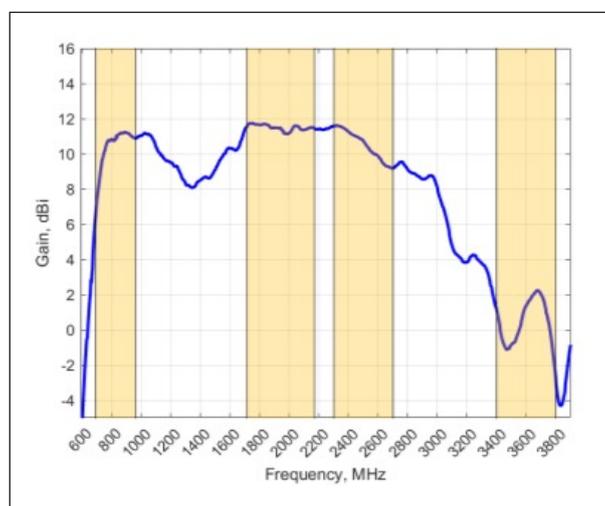
Key Features:

- Futureproof wideband LTE and Wi-Fi antenna covering 690 – 3800 MHz
- Compatible with 2G, 3G and 4G technologies
- 5G Ready; includes 3.4 GHz to 3.8 GHz CBRS Band
- Improves mobile network subscriber's user experience
- Weather and vandal resistant
- Can be used in extreme weather environment

Typical VSWR:



Typical Gain:



Electrical Specifications

| Model Number | LPDA7038-11-10SMA | LPDA7038-11-0.5NF | LPDA7038-11-PIM |
|----------------------|---------------------------------|-------------------|-----------------|
| Frequency MHz | 698-960 / 1710-2700 / 3400-3800 | | |
| Nominal Gain dBi | 10.8 / 11 / 2.3 | | |
| VSWR | <1.5:1 across 95% of the bands | | |
| Impedance Ω | 50 | | |
| Power W | 10 | | |
| Vertical Beamwidth | 50° (±5°) | | |
| Horizontal Beamwidth | 55° (±5°) | | |
| Front to Back Ratio | 20 dB (±3dB) | | |

Mechanical Specifications

| Model Number | LPDA7038-11-10SMA | LPDA7038-11-0.5NF | LPDA7038-11-PIM |
|--------------------|---|---|---|
| Dimensions mm | 1112 x 200 x 47 | | |
| Weight kg | 1.65 | | |
| Mounting | Stainless Steel bracket to suit up to Ø 60mm (included) | | |
| Cable & Connector | 10m HDF 195 terminated with SMA male connector | 0.5m HDF 195 terminated with N female connector | 0.6m RG142 terminated with N female connector |
| Wind Survival km/h | ≤160 | | |
| Temperature °C | -40 to +70 | | |
| Ingress Rating | IP65 | | |
| Salt Spray | MIL-STD 810F/ASTM B117 | | |
| Impact Resistance | IK08 | | |
| Standards | CE & RoHS | | |

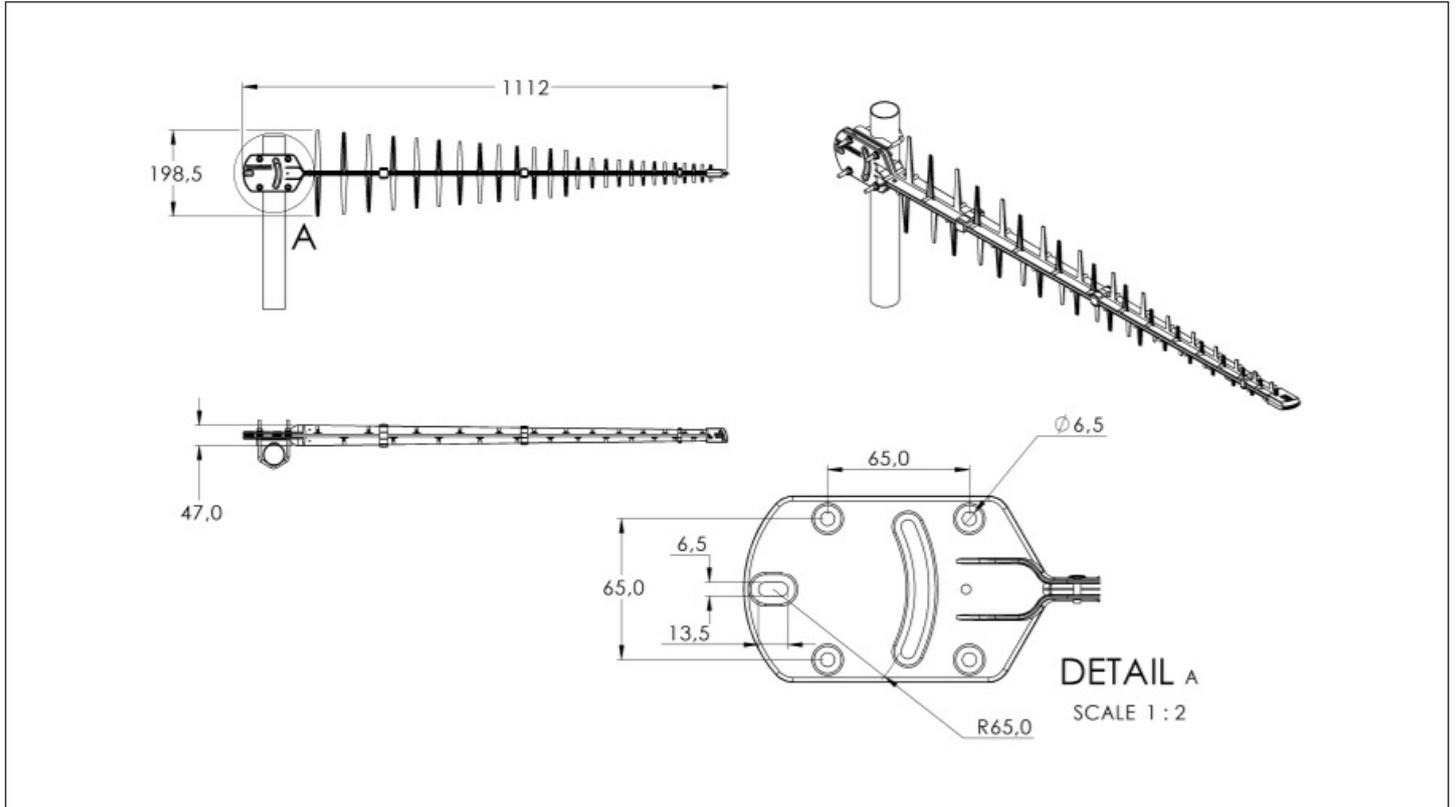
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Mechanical Drawing



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Radiation Patterns

