

Product: PARED1-4/LTE

Product Order Code:  
BM-02 RANGE

## Wideband Telemetry Antenna

LTE-4G, CELLULAR (2G, 3G)

- Robust wideband wall mounted antenna
- RoHS 2011/65/EU & RoHS3 (2015/863/EU compliant)
- Request samples for test & evaluation via [enquiry@bloomice.com](mailto:enquiry@bloomice.com)



### Technical Data

|                               |                                                                |                                                                                                            |
|-------------------------------|----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| Dimensions                    |                                                                | As detailed within CAD drawing                                                                             |
| Weight                        |                                                                | 77g (Excluding cable)                                                                                      |
| Construction Materials        |                                                                | PC/ABS UL94 V0 UV Stable<br>Steel Bracket - Epoxy Resin coated grey                                        |
| Mounting Arrangement          |                                                                | M12 Stainless Steel Split Nut<br>Mounting upon steel wall mounted bracket                                  |
| Temperature Range             |                                                                | -40 – +85° C                                                                                               |
| Protection Class              |                                                                | IP66 (IEC 60529)                                                                                           |
| Cellular LTE / 2G / 3G        |                                                                |                                                                                                            |
| Frequency Range               | LTE 700 + GSM 900:<br>GSM 1800:<br>UMTS:<br>WLAN + LTE (High): | 700 - 960 MHz<br>1710 - 1880 MHz<br>1920 - 2170 MHz<br>2300 - 2655MHz                                      |
| Impedance                     |                                                                | 50 Ohm                                                                                                     |
| Polarisation                  |                                                                | Linear                                                                                                     |
| Peak Gain                     | LTE 700 + GSM 900:<br>GSM 1800:<br>UMTS:<br>WLAN + LTE (High): | @ 790-960 MHz; 2.1dBi<br>@ 1710-1880 MHz; 4.3dBi<br>@ 1920-2170 MHz; 3.6dBi<br>@ 2300-2700 MHz; 3.2dBi     |
| Radiation Pattern             |                                                                | Omni-Directional                                                                                           |
| Max Power @ 30°C              | LTE 700 + GSM 900:<br>GSM 1800:<br>UMTS:<br>WLAN + LTE (High): | 35 Watts @ 790-960 MHz<br>35 Watts @ 1710-1880 MHz<br>35 Watts @ 1920-2170 MHz<br>35 Watts @ 2300-2700 MHz |
| Return loss (VSWR)            |                                                                | ≤ 2:1 (All Bands)                                                                                          |
| Radiator Type                 |                                                                | Monopole                                                                                                   |
| Cable types Available         |                                                                | LL100 50 Ohm Low Loss / RG174                                                                              |
| Cable Length                  |                                                                | According to customer specification                                                                        |
| Connector                     |                                                                | According to customer specification                                                                        |
| Test & Measurement Conditions |                                                                | 300mm x 300mm Ground Plane / 1000mm LL100 Cable                                                            |

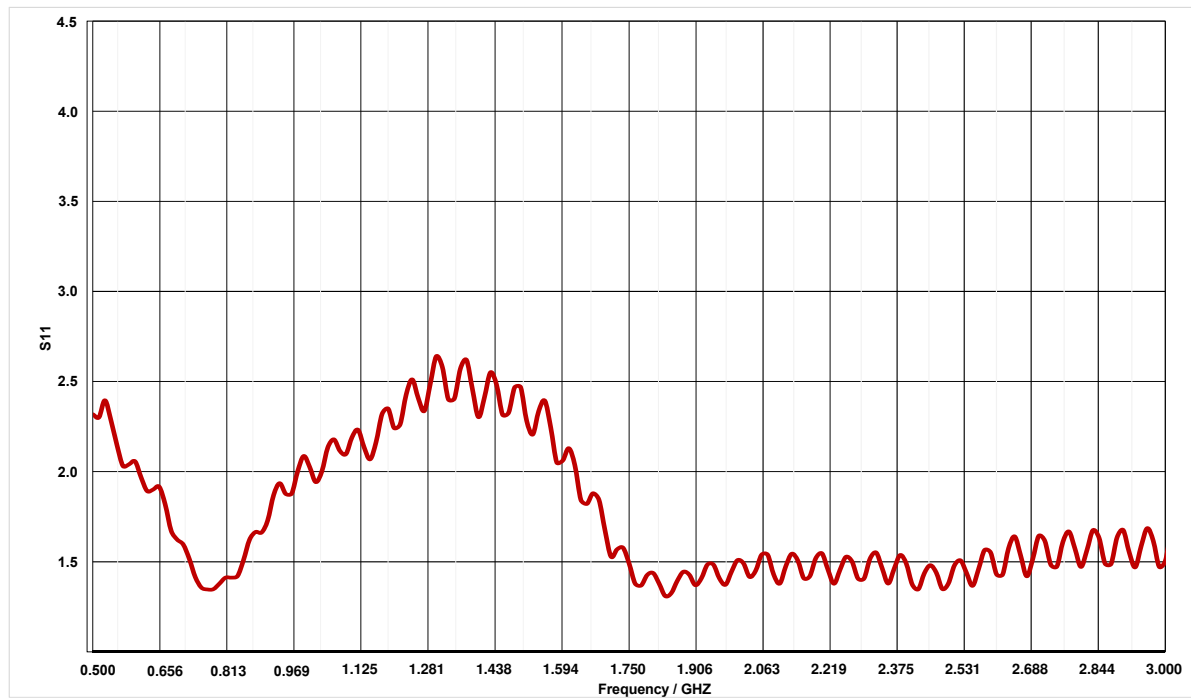
dBi: Referenced to an isotropic radiator

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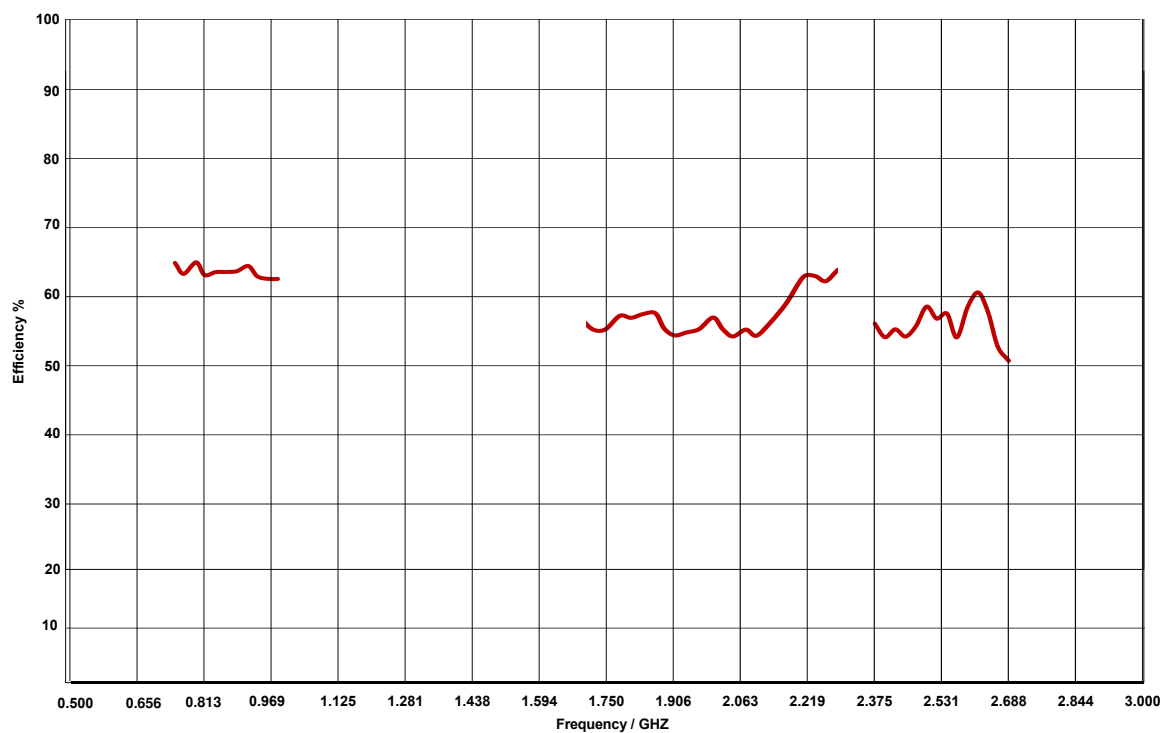
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VSWR Data

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Radiated Efficiency



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**CAD Data**

