



**5.47-5.875GHz 8.5 dBi VERTICAL POLARITY  
OMNI DIRECTIONAL ANTENNA**

| Electrical Characteristics | Model: RL-35-8.5-N-Male  |
|----------------------------|--|
| Frequency Range            | 5.47 GHz to 5.875 GHz  |
| Peak Gain + Azimuth Ripple | 7.8 ± 0.6dBi @ 5.47GHz<br>9.0 ± 0.6dBi @ 5.725GHz<br>8.5 ± 0.6dBi @ 5.875GHz |
| Gain @ Horizon             | 6.0 ± 0.8dBi @ 5.47GHz<br>9.0 ± 0.6dBi @ 5.725GHz<br>7.5 ± 0.6dBi @ 5.875GHz |
| VSWR                       | 1.7:1 (max)  |
| Polarization               | Linear Vertical  |
| E-plane Sidelobes          | -10° dB (max)  |
| 3 dB Elevation Beamwidth   | 10° (typical)  |
| 3 dB Azimuth Beamwidth     | 360° Omni  |
| Power                      | 4 W Max  |
| Input Impedance            | 50Ω  |
| Lightening Protection      | DC Grounded  |
| Regulatory Compliance      | RoHS, CE 0682  |

### Rapidus Wireless

118-19055 Airport Way, Pit Meadows, BC. Canada V3Y 0G4

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|  |   |
|--|---|
| <b>Mechanical</b>                      | <b>Model: RL-35-8.5-N-Male</b>                                |
| <b>Dimensions with Connector (DxH)</b> | 16mm x 337 mm (max)   |
| <b>Connector</b>                       | N-type Female   |
| <b>Weight</b>                          | 0.5kg (max)   |
| <b>Mounting Kit</b>                    | Mounted to radio's N-female output or via adapter or RF cable |
| <b>Radome Material</b>                 | UV Resistant Plastic  |
| <b>Baseplate Material</b>              | Aluminum with Chemical Conversion Coating                     |
| <b>Outline Drawing</b>                 | See below   |

| TEST                            | STANDARD             | DURATION    | TEMPERATURE | NOTES               |
|---------------------------------|----------------------|-------------|-------------|---------------------|
| Low Temperature                 | IEC 68-2-1           | 72 Hours    | -55°C       |                     |
| High Temperature                | IEC 68-2-2           | 72 Hours    | +71°C       |                     |
| Temp. Cycling                   | IEC 68-2-14          | 1 Hour      | -45°C +70°C | 3 Cycles            |
| Vibration                       | IEC 60721-3-4        | 30 min/axis |             | Random4M5           |
| Shock Mechanical                | IEC 60721-3-4        |             |             | 4M5                 |
| Humidity                        | ETSI EN300-2-4 T4.1E | 144 Hours   |             | 95%                 |
| Water Tightness                 | IEC 529              |             |             | IP67                |
| Solar Radiation                 | ASTAM G53            | 2000 Hours  |             |                     |
| Flammability                    | UL 94                |             |             | Class HB            |
| Salt Spray                      | IEC 68-2-11 Ka       | 500 Hours   |             |                     |
| Ice & Snow                      |                      |             |             | 25 mm Radial        |
| Wind Speed Survival / Operation |                      |             |             | 220 Km/h / 160 Km/h |
| Wind Load (Survival)            |                      |             |             | 1.6 kg              |

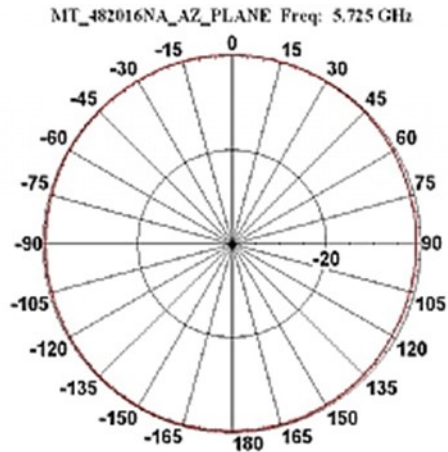
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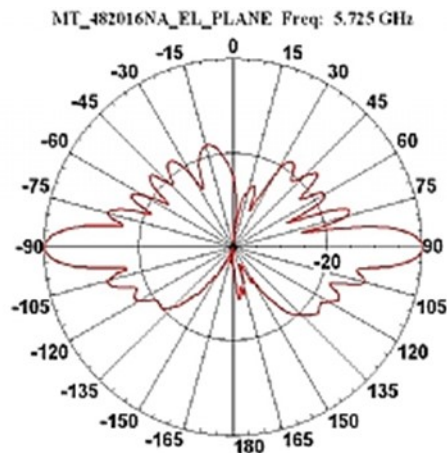
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## AZIMUTH RADIATION PATTERN MIDBAND FREQ. 5.725 GHZ



## ELEVATION RADIATION PATTERN MIDBAND FREQ. 5.725 GHZ



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