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## **Specification for**

# **Embedded Antenna SR150-Series Vertical Polarization 5.2-5.9 GHz, 10.0dBi**

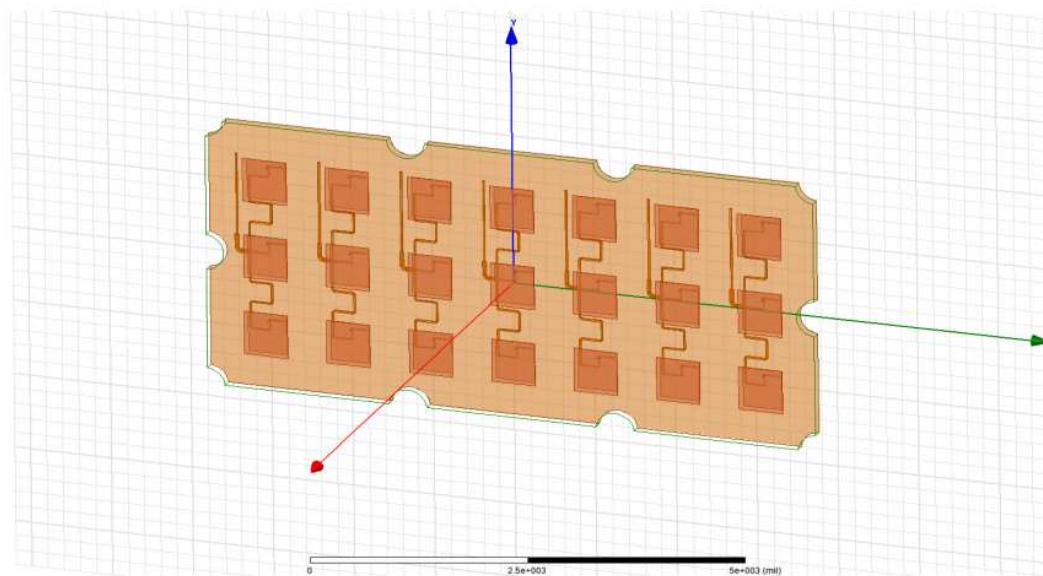
**SPECIFICATION**  
**Flat Panel Subscriber Antenna Dual Pole**

|                             |                                                          |
|-----------------------------|----------------------------------------------------------|
| <b>MAGOS PART NUMBER</b>    | <b>MS9734</b>                                            |
| Regulatory Compliance       | UL, RoHS , CE 0682,                                      |
|                             |                                                          |
| <b><u>1. ELECTRICAL</u></b> |                                                          |
|                             |                                                          |
| Frequency Range             | 5.2-5.9 GHz                                              |
| Gain                        | 10.0±1.0 dBi                                             |
| VSWR                        | 2.0 : 1 (max)                                            |
| 3 dB Beam width Azimuth     | 90° (typ)                                                |
| 3 dB Beam width Elevation   | 30° (typ)                                                |
| Polarization                | Linear ,Vertical                                         |
| Cross Polarization          | -15 dB (typ)                                             |
| Port To Port Isolation      | -14 dB (max) @ 5.2-5.7 GHz<br>-17 dB (max) @ 5.7-5.9 GHz |
| F/B Ratio                   | -25 dB (typ)                                             |
| Input Impedance             | 50 (ohm)                                                 |
| Input Power                 | 6 W (max)                                                |
| Lightning Protection        | DC Grounded                                              |
|                             |                                                          |
| <b><u>2. MECHANICAL</u></b> |                                                          |
|                             |                                                          |
| Dimensions (LxWxD)          | 90 x 190 x 3.5mm (max)<br>Not include connector          |
| Weight                      | 0.2 (kg) (max)                                           |
| Connector                   | integrated                                               |
| Radome                      | 2mm Polycarbonate Case                                   |
| Base Plate                  | Embedded ground plane                                    |
| Outline Drawing             | Attached                                                 |
|                             |                                                          |

| <b><u>3. ENVIRONMENTAL</u></b> |                 |                 |                   |              |
|--------------------------------|-----------------|-----------------|-------------------|--------------|
| <b>TEST</b>                    | <b>STANDARD</b> | <b>DURATION</b> | <b>TEMPERTURE</b> | <b>NOTES</b> |
| Low Temperature                | IEC 68-2-1      | 72 h            | -55°C             | -            |
| High Temperature               | IEC 68-2-2      | 72 h            | +71°C             | -            |
| Temp. Cycling                  | IEC 68-2-14     | 1 h             | -45°C +70°C       | 3 Cycles     |
| Flammability                   | UL 94           | -               | -                 | CLASS HB     |

**Note :** - Antenna will be integrated into the radio PCB.

Drawing:



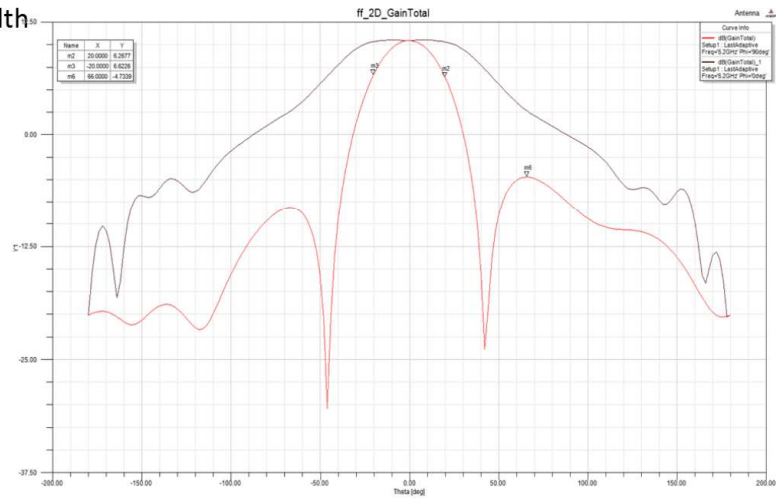
Description:

7 Element array.

Each element is composed of 3 connected patches.

## Performance:

- ❑ 90° horizontal beam width at -5dB points.
- ❑ 45° Vertical beam width at -5dB points.



## ❑ 3D pattern

