**Technical Specification**



|  |  |
| --- | --- |
| Frequency Range(MHz) | 40 - 500 |
| Gain(dB) | 1 Typ. |
| Polarization | Linear |
| VSWR | 2.5:1 Typ. |
| Power(W) | 300 CW |
| Connector | N-Female |
| Size(mm) Φ x H | Φ2289x2377 |
| Net Weight(Kg) | 8.57 Around |

**Outline Drawing (Size: mm)**

AINFO Inc. Page 1 of 4

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**Test Results**

1. **Gain**

10

8

Gain(dBi)

6

4

2

0

0 50 100 150 200 250 300 350 400 450 500

Frequency(MHz)

1. **Antenna Factor**

25

Antenna Factor(dB/m)

20

15

10

5

0

0 50 100 150 200 250 300 350 400 450 500

Frequency(MHz)

AINFO Inc. Page 2 of 4

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1. **VSWR**
2. **Pattern**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Frequency: 40MHz |  |  |  | Frequency:100MHz |  |  |  |
|  | **0** |  |  |  | **0** |  |  |
| **-30** | 0.00 | **30** |  | **-30** | 0.00 | **30** |  |
|  | -10.00 |  |  |  | -10.00 |  |  |
| **-60** | -20.00 | **60** |  | **-60** | -20.00 | **60** |  |
|  | -30.00 |  |  |  | -30.00 |  |  |
|  | -40.00 |  |  |  | -40.00 |  |  |
| **-90** |  |  | **90** | **-90** |  |  | **90** |
| **-120** |  | **120** |  | **-120** |  | **120** |  |
| **-150** |  | **150** |  | **-150** |  | **150** |  |
|  | **-180** |  |  |  | **-180** |  |  |
| H-Plane **———** |  | E-Plane **- - - - -** |  | H-Plane **———** |  | E-Plane **- - - - -** |  |

AINFO Inc. Page 3 of 4

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|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Frequency: 200MHz |  |  |  | Frequency: 300MHz |  |  |  |
|  | **0** |  |  |  | **0** |  |  |
| **-30** | 0.00 | **30** |  | **-30** | 0.00 | **30** |  |
|  | -10.00 |  |  |  | -10.00 |  |  |
| **-60** | -20.00 | **60** |  | **-60** | -20.00 | **60** |  |
|  | -30.00 |  |  |  | -30.00 |  |  |
|  | -40.00 |  |  |  | -40.00 |  |  |
| **-90** |  |  | **90** | **-90** |  |  | **90** |
| **-120** |  | **120** |  | **-120** |  | **120** |  |
| **-150** |  | **150** |  | **-150** |  | **150** |  |
|  | **-180** |  |  |  | **-180** |  |  |
| H-Plane **———** |  | E-Plane **- - - - -** |  | H-Plane **———** |  | E-Plane **- - - - -** |  |

T

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Frequency: 400MHz |  |  |  |  | Frequency: 500MHz |  |  |  |  |
|  | **0** |  |  |  |  | **0** |  |  |  |
| **-30** | 0.00 | **30** |  |  | **-30** | 0.00 | **30** |  |  |
|  | -10.00 |  |  |  |  | -10.00 |  |  |  |
| **-60** | -20.00 |  | **60** |  | **-60** | -20.00 |  | **60** |  |
|  | -30.00 |  |  |  |  | -30.00 |  |  |  |
|  | -40.00 |  |  |  |  | -40.00 |  |  |  |
| **-90** |  |  |  | **90** | **-90** |  |  |  | **90** |
| **-120** |  |  | **120** |  | **-120** |  |  | **120** |  |
| **-150** |  | **150** |  |  | **-150** |  | **150** |  |  |
|  | **-180** |  |  |  |  | **-180** |  |  |  |
| H-Plane **———** |  | E-Plane **- - - - -** |  |  | H-Plane **———** |  | E-Plane **- - - - -** |  |  |

AINFO Inc. Page 4 of 4

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