

## SLENDER III

Active RFID antenna



### BENEFITS

- Semi directional
- +7 dBi Gain (minimum)
- Linear polarization antenna



## TECHNICAL SPECIFICATIONS

### OPERATING MODE

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<b>Frequency</b>	405-450 MHz
<b>Gain</b>	+7dBi (minimum)
<b>VSWR</b>	2:1 (typ) 2.5:1 (max) @ 405-415MHz 1.5:1 (typ) 1.7:1 (max) @ 415-440MHz 2:1 (typ) 2.5:1 (max) @ 440-450MHz
<b>Polarization</b>	Linear vertical
<b>Return Loss</b>	-17,2 dB @ 433MHz* * See "MAX Return loss vs. Freq" graph
<b>Input impedance</b>	50Ω
<b>Power</b>	6W (maximum)
<b>Opening angle in -3dB</b>	E plan : 68° H plan : 70°

### CERTIFICATIONS

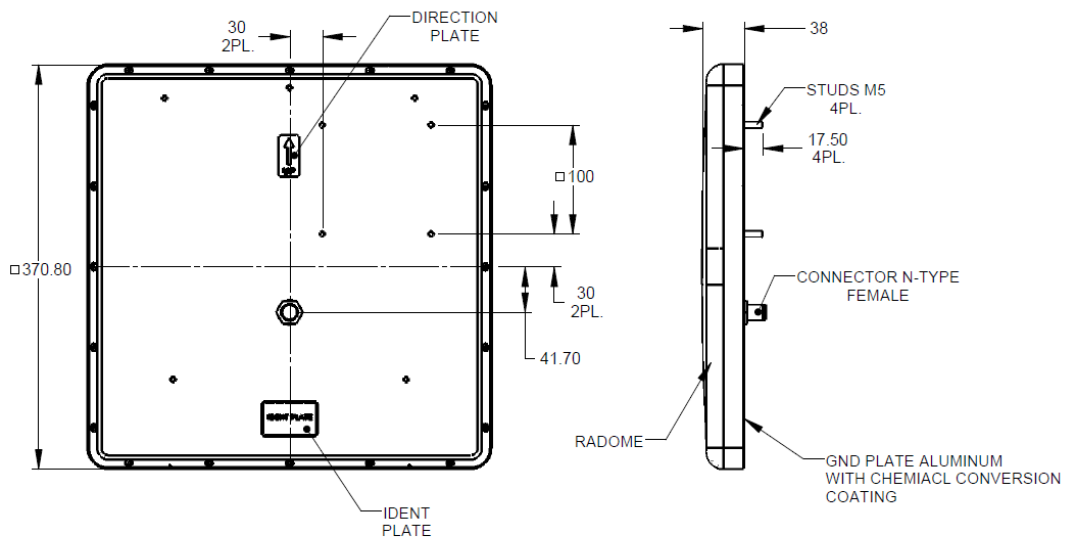
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<b>Europe</b>	CE 0682
<b>RoHs</b>	Yes

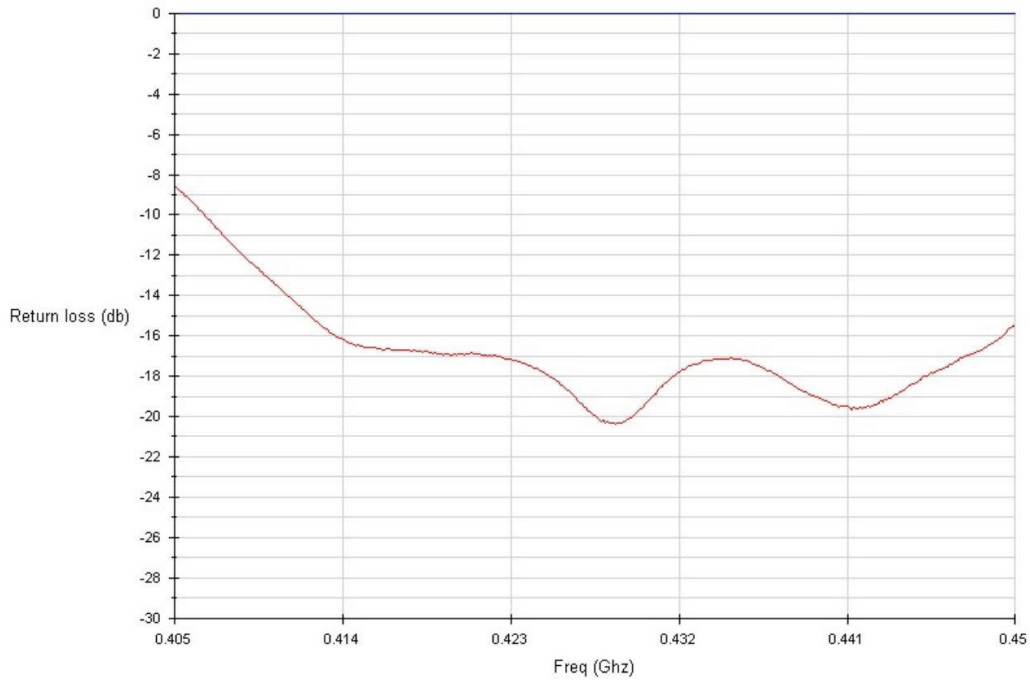
## HOUSING

<b>Dimensions</b>	370 x 370 x 40mm
<b>Weight</b>	2Kg
<b>Waterproof grade</b>	IP67
<b>Materials</b>	Aluminium housing and plastichood
<b>Connector</b>	N-Type female
<b>Mounting</b>	Wall mounting kit
<b>Temperature</b>	-55°C to +71°C
<b>Surface exposed to the wind</b>	0.14m <sup>2</sup>
<b>Solar radiation</b>	ASTM G53 : 1000 h
<b>Quasi random vibration</b>	20g rms for 4h
<b>Mechanical shock operating</b>	10g, 11msec msechalf sine pulse
<b>Lightning Protection</b>	DC Earth

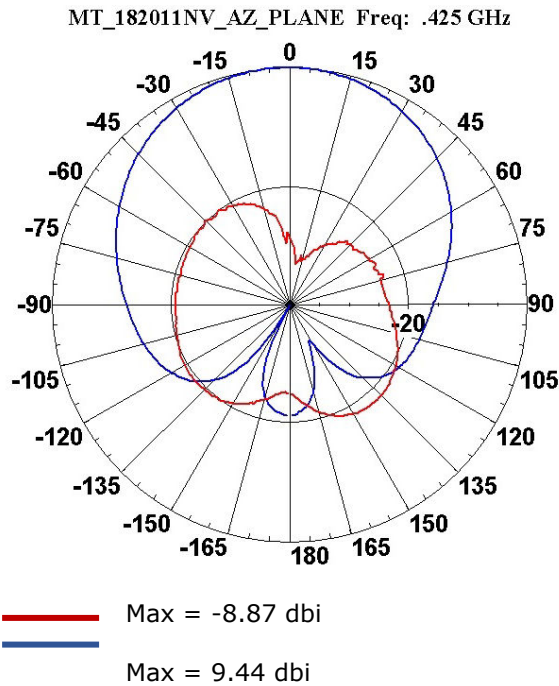
## MECHANICAL DRAWINGS



MAX Return loss vs. Freq (GHz)



Azimuth Radiation Pattern Midband  
Freq. 0.425 GHz



Elevation Radiation Pattern Midband  
Freq. 0.425 GHz

