433MHz Antenna

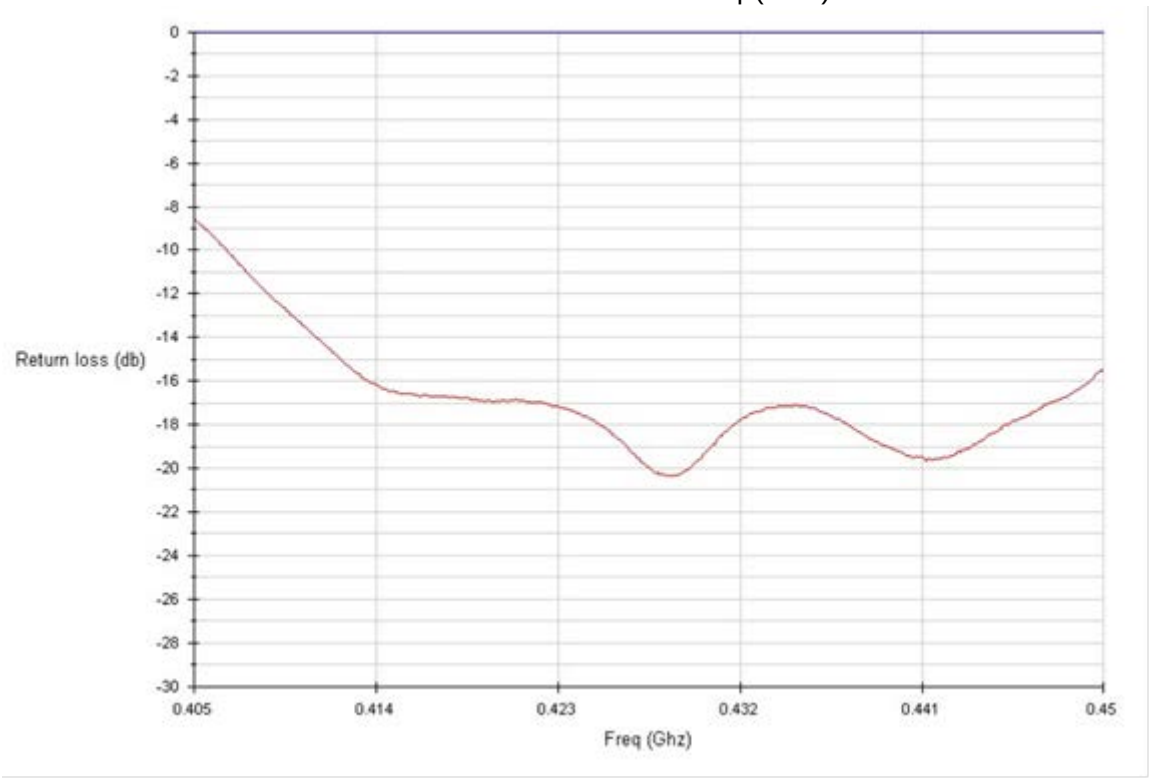
SLENDER III

Ref ACIOM125

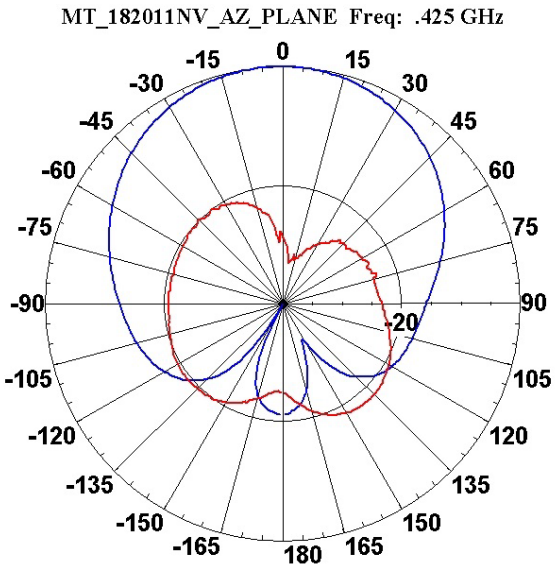
- **Outdoor and indoor applications**
- **Semi directional**
- **+7 dBi Gain (minimum)**
- **Linear polarization antenna**

Technical specifications		
Electrical Data		
Gain		+7 dBi Gain (minimum)
Frequency range		405 - 450 Mhz
VSWR		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
Polarization		Linear vertical
Return Loss	See “MAX Return loss vs. Freq" graph	-17,2 dB @ 433MHz
Input Impedance		50 Ω
Power		6W (max)
Regulatory compliance		RoHS, CE 0682
Lightning protection		DC Grounded
Opening angle -3dB	E Plan	68°
	H Plan	70°
Mechanical Data		
Dimensions	Aluminium housing and plastic hood	370 x 370 x 40 mm
Connector		N-Type Female
Weight		2 kg
Mounting	Wall mounting kit	Included
Environmental		
Temperature		-55°C to +71°C
Humidity		95%
Waterproof		IP67
Surface exposed to the wind		0.14m²
Solar radiation	ASTM G53	1000 h
Quasi random vibration		20g rms for 4 hours
Mechanical shock Operating		10g,11msec, half sine pulse

MAX Return loss vs. Freq (GHz)

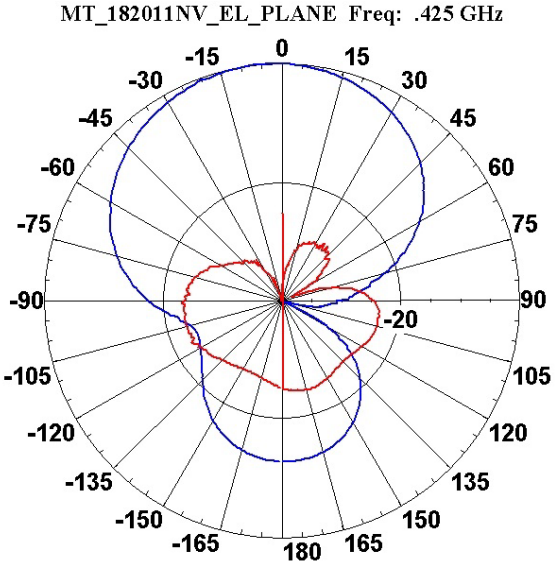


Azimuth Radiation Pattern Midband
Freq. 0.425 GHz

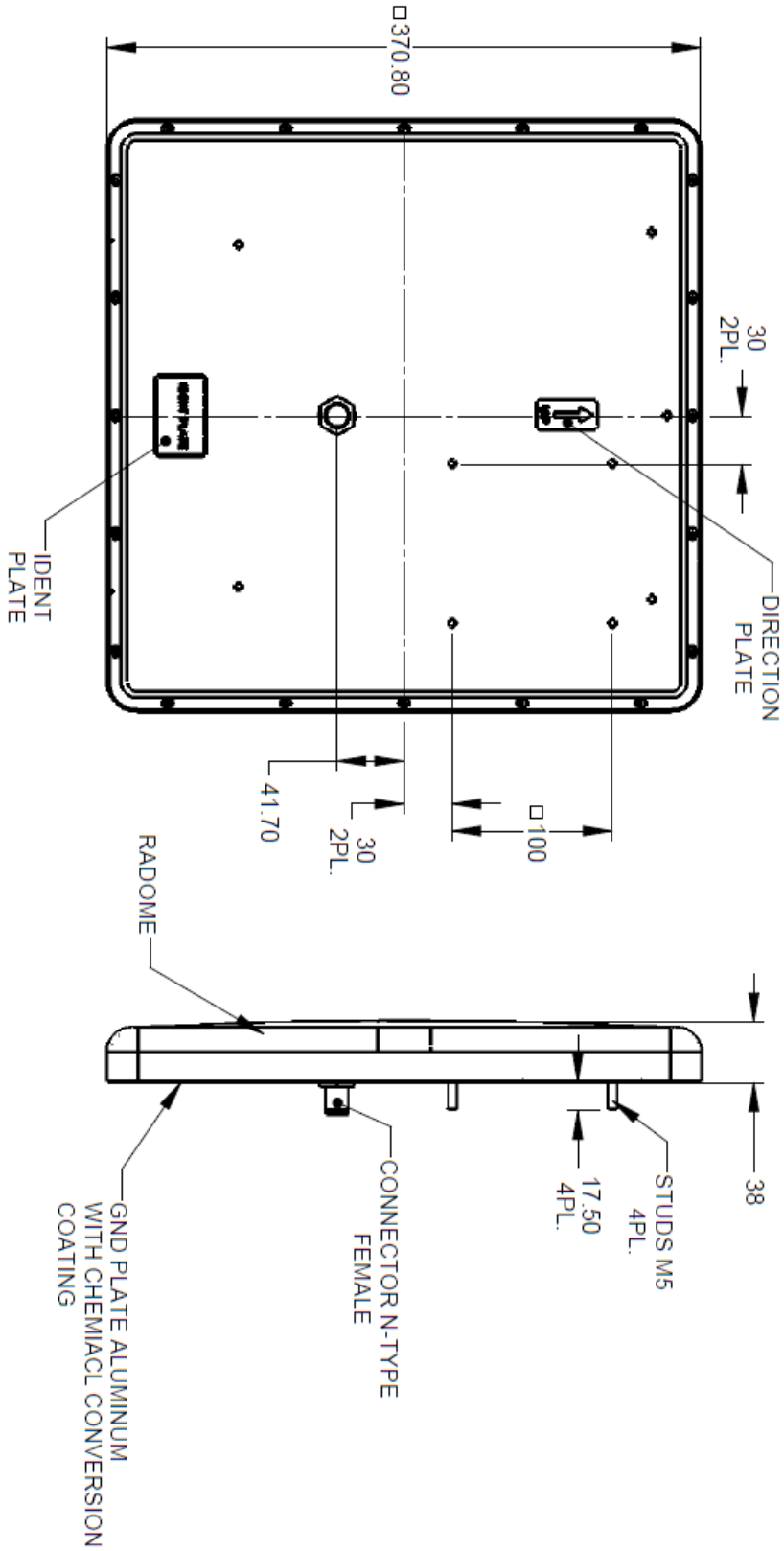


Max= -8.87 dbi
Max= 9.44 dbi

Elevation Radiation Pattern Midband
Freq. 0.425 GHz



Max= -13.98 dbi
Max= 9.16 dbi



Drawing ref.: RD41632700C