

RFID Antennas

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 à -3dB	E Plan	68°
	H Plan	70°

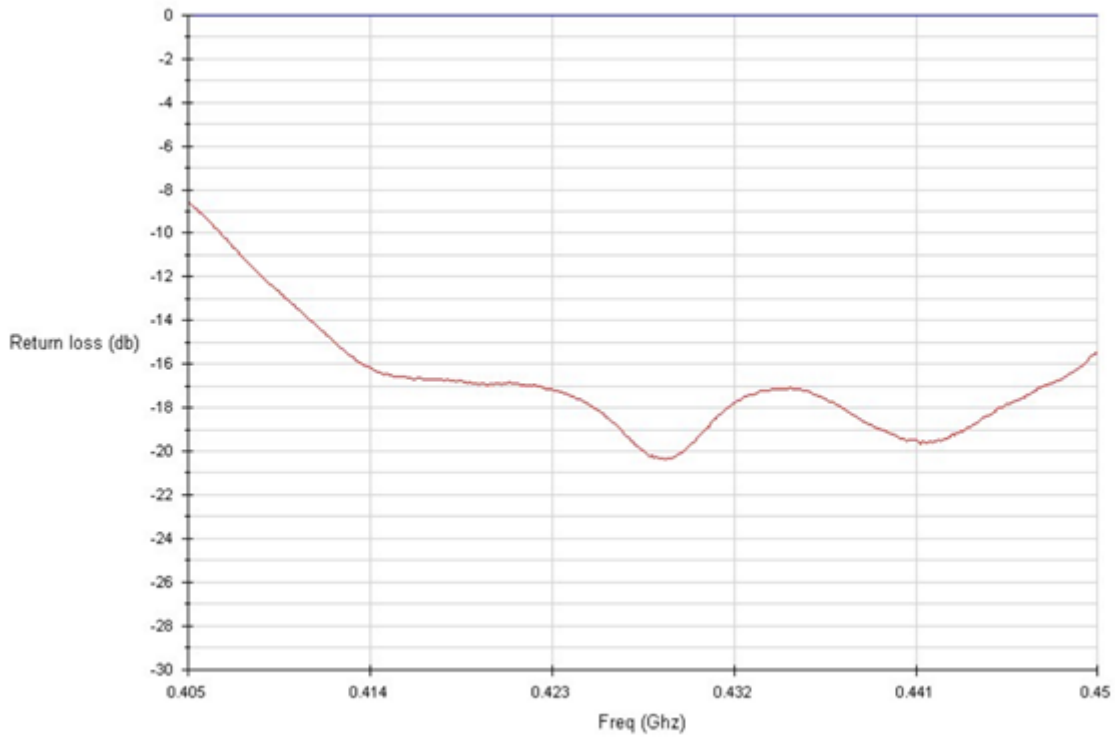
Mechanical data

Dimensions	Aluminium housing and plastic hood	370 x 370 x 40 mm
Connector		N-Type female
Weight		2 Kg
Mounting	Wall mounting kit	Included

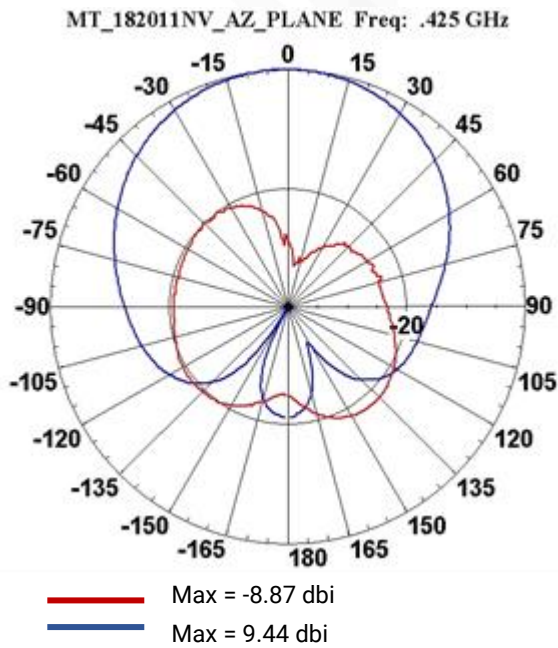
Environmental

Temperature		-55°C to +71°C
Humidity		95%
Waterproof		IP67
Surface exposed to the wind		0.14m ²
Solar radiation	ASTM G53	1000 h
Quasi random vibration		20g rms for 4 hours
Mechanical shock operating		10g, 11msec half sine pulse

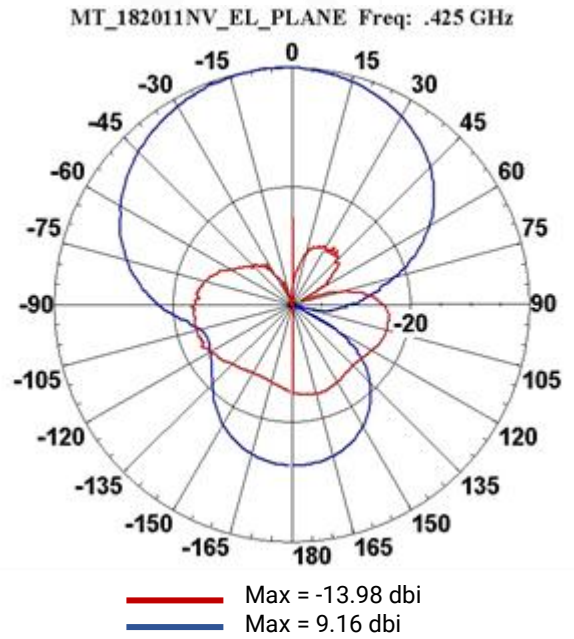
MAX Return loss vs. Freq (GHz)

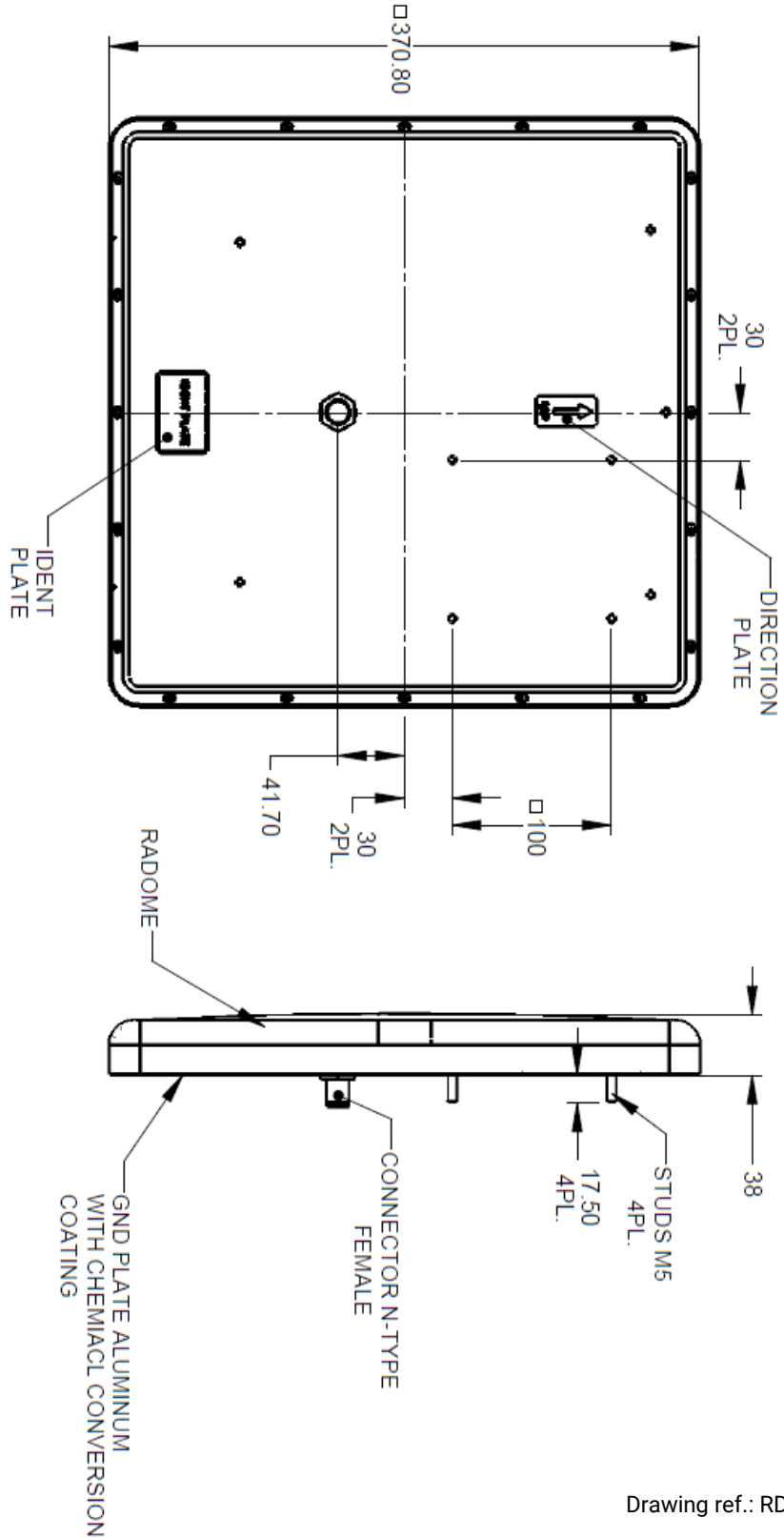


Azimuth Radiation Pattern Midband
Freq. 0.425 GHz



Elevation Radiation Pattern Midband
Freq. 0.425 GHz





Drawing ref.: RD41632700C