DATA SHEET

GNSSoF Antennas

SYNCRO Mini, GNSS antenna, coaxial, L1 + L5

O-GNSS-L15-02

Properties

- Dual Frequency - L1 and L5 bands
- Weatherproof housing, proven extra rugged, reliable
- High out-of-band rejection filter for improved harsh environment performance
- Built-in lightning surge protection that meets or exceeds IEC 61000-4 standards.

General data	
Product family	GNSS antenna
Suitable Products	D-GNSSoF1-1T-L12 85135572
Application Area	Outdoor

Electrical data	
GNSS band	L1: 1559-1610 MHz
	L5: 1164-1214 MHz
Supply voltage range	2.7 V DC ... 9 V DC
Supply Current	26 mA
Link gain typical	40.8+/-3.0 dB @1559 MHz
	42.9+/-3.0 dB @1575.42 MHz
	37.9+/-3.0 dB @1610 MHz
	40.1+/-3.0 dB @1164 MHz
	39.3+/-3.0 dB @1176.45 MHz
	36.0+/-3.0 dB @1214 MHz
Noise figure (link with TX)	3.5 dB
VSWR	2
Axial ratio	3.0 dB typ.
Out of band rejection	L1: >75 dB
	L5: >65 dB
Filter Out of Band Attenuation	>75 dB @1511 MHz - 1561 MHz
	>83 dB @1601.5 MHz - 1651.5 MHz
	>85 dB @1126.45 MHz - 1176.45 MHz
	>81 dB @1201.5 MHz - 1251.5 MHz

GNSSoF Antennas

SYNCRO Mini, GNSS antenna, coaxial, L1 + L5

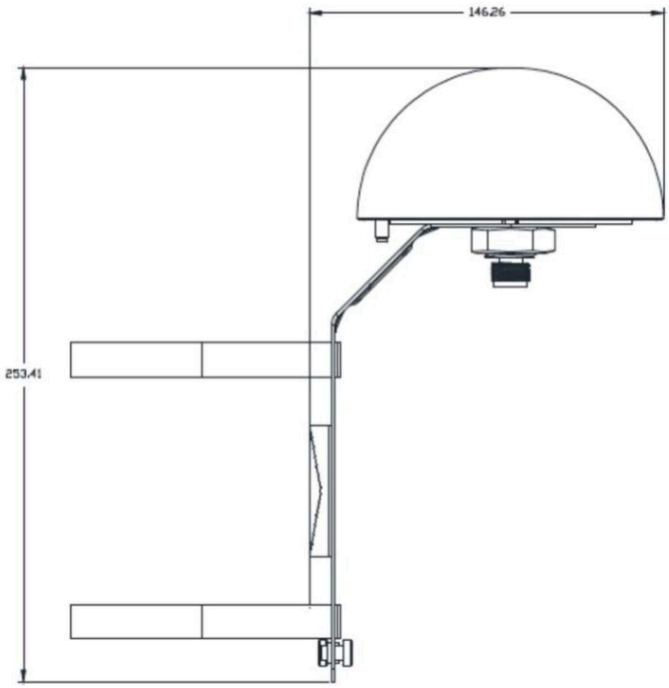
O-GNSS-L15-02

Mechanical data	
Weight	0.93 kg
Radome material	Plastic
Dimensions	90.52 mm x 126.6 mm (Height x Depth)
Mast diameter min	0.5 inch

Environmental data	
Ingress protection (IP Rating)	IP67
Storage temperature	-55 °C ... 105 °C
Operation temperature	-40 °C ... 85 °C
Ambient humidity	5% ... 95% - non-condensing

RF signal output	
Product family RF connector	N-type Jack
RF input impedance	50 Ω

Technical drawing



Ordering Information Table

Item number	Item description
85243244	O-GNSS-L15-02

Additional Information

Multiple installation options and pole diameter 1/2 to 3 1/2 inch

From 2.7 - 2.9V, the gain will be 3 dB lower than specified

GNSSoF Antennas

SYNCRO Mini, GNSS antenna, coaxial, L1 + L5

O-GNSS-L15-02

DOCUMENT PIM-P57170 / Date of publication: 16.02.2026 / uncontrolled copy