



X-band Antenna

for nanosatellites applications

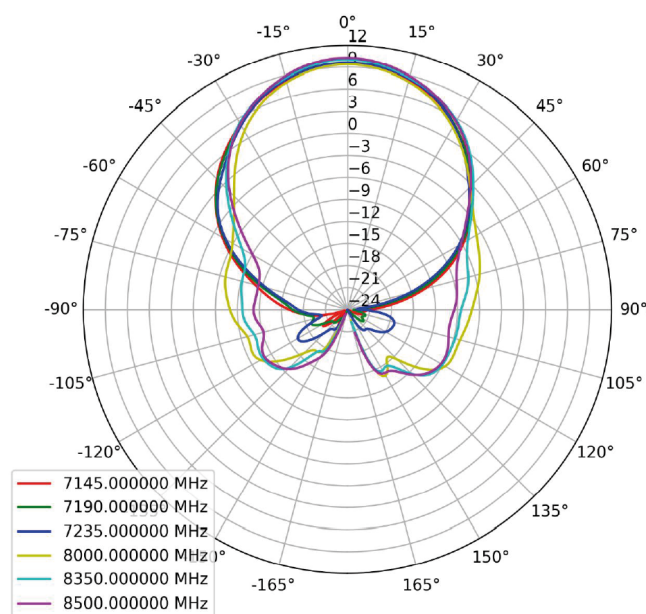
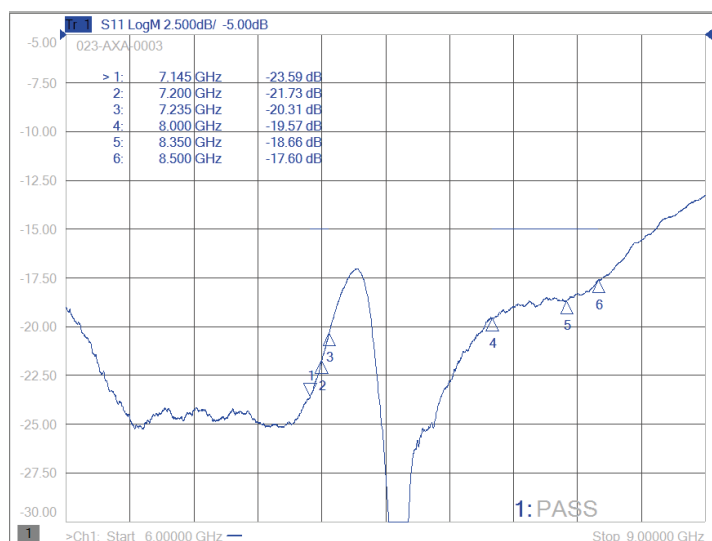
ABOUT

WiRan X-band antenna is a currently developed component for full-duplex communication for data transmission and swarm dedicated radiocommunication in X-band. The antenna is designed to operate in 7145-7235 & 8000-8500 MHz bands. It is fully compatible and easily integrable with WiRan X-band Diplexer.



FEATURES

- compliant with the CubeSat nanosatellite standard
- full duplex ready
- RHCP by default
- light & compact



Radiation pattern, S-Parameters available on request.

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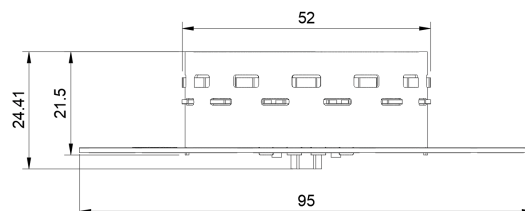


RF Parameters	Guaranteed Value	Typical Value	Unit
Frequency Range	7145-7235; 8000-8500		MHz
Return Loss	>15	>17	dB
HPBW	45 ±5	45	°
Gain	9.5 ±0.5	9.5	dBi
AR (RHCP) @ 0°	<3	<2	dB
AR (RHCP) @ ±20°	<5	<3	dB
AR (RHCP) max @ ±40°	<12	<10	dB
Maximum power	15	-	W

Technical drawing of a circular mechanical part with four mounting tabs. The drawing includes the following dimensions:

- Overall width: 95
- Overall height: 90
- Tab width: 4.2
- Tab height: 7.4
- Mounting hole diameter: $\varnothing 3.2$
- Mounting hole offset from tab edge: 5.1

A logo is present in the bottom left corner of the drawing.



STEP files available on request.

AXA-DS-1p0
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