

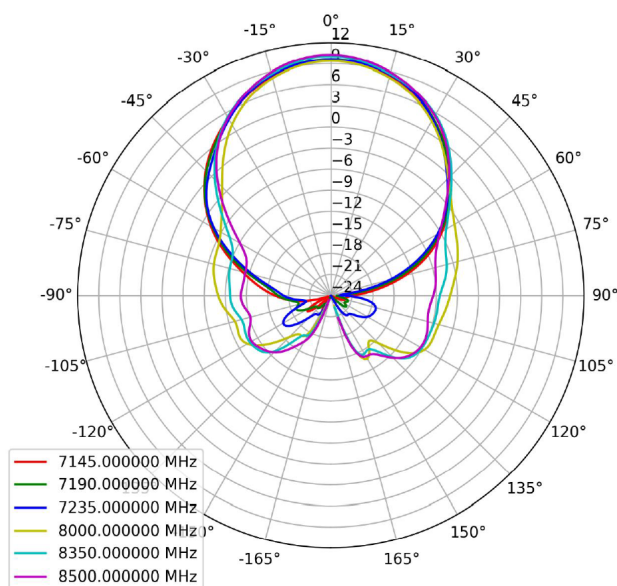
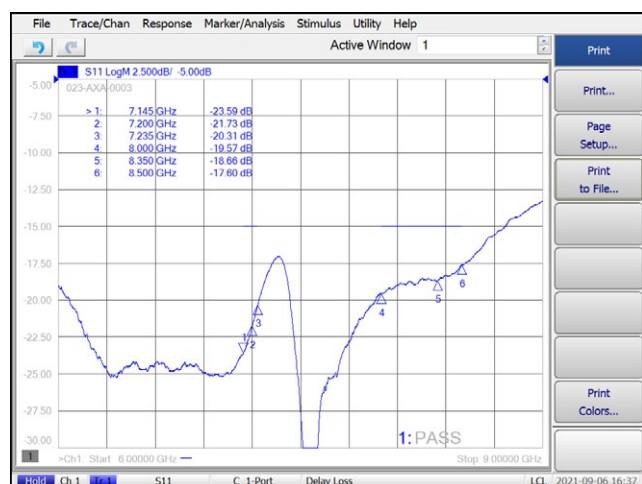
## ABOUT

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

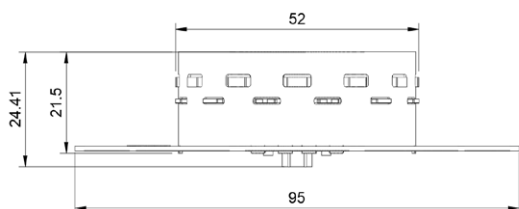


# X-Band Antenna

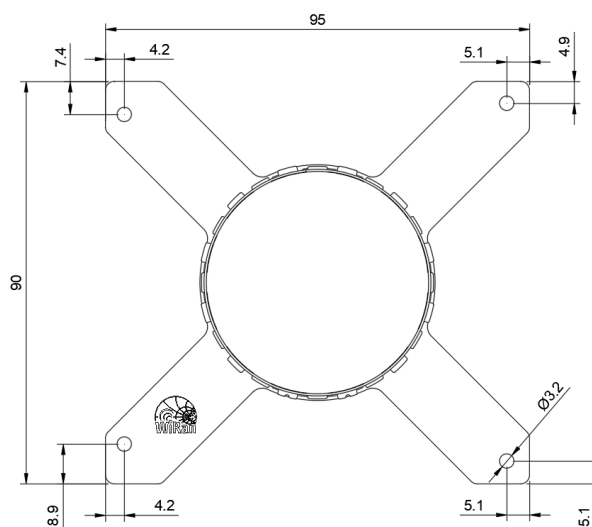
for CubeSat nanosatellites applications

RF Parameters	Value	Tolerances	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

Mechanical Parameters	Value	Tolerances	Unit
Operating temperature range	-75 / +90	-	°C
Weight	39	±1	g
Maximum linear dimension (X or Y)	95	±0.5	mm
Maximum height (Z)	24.5	±0.5	mm
Height without connector (Z)	21.5	±0.5	mm
RF interface	SMP female connector	-	-



all values in mm  
STEP files available on request



Ordering code	Description
AXA	X band antenna 7145-8500MHz, CubeSat compatible