



X-Band Diplexer

for CubeSat nanosatellites applications

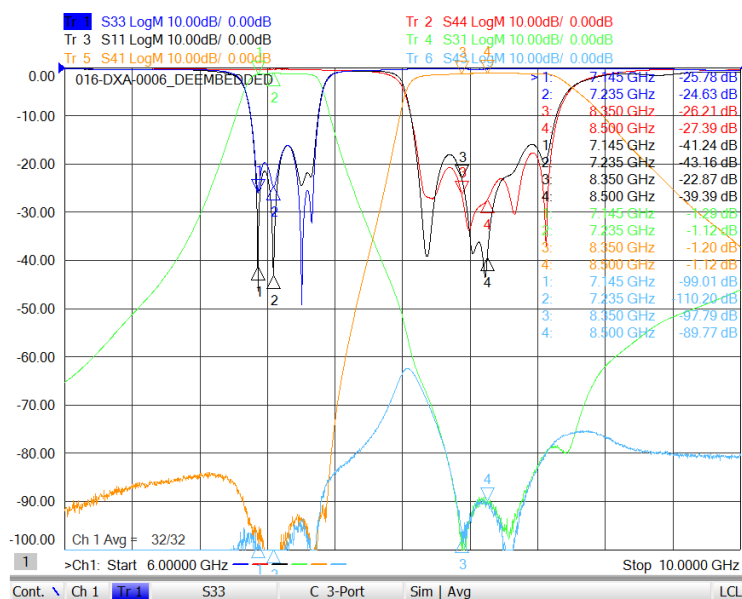
ABOUT

WiRan X-Band diplexers provide full-duplex communication for data transmission and swarm dedicated radiocommunication in X band. They are designed to operate in 7145-8500 MHz band, covering a large part of Earth Observation frequency band.



FEATURES

- compliant with the CubeSat nanosatellite standard
- designed under supervision of European Space Agency
- high power handling levels
- low height & volume allow to save precious space in your satellite
- full compatibility with currently developed WiRan X-Band antenna
- isolation levels comparable with waveguide components (>80dB)



S parameters available on request

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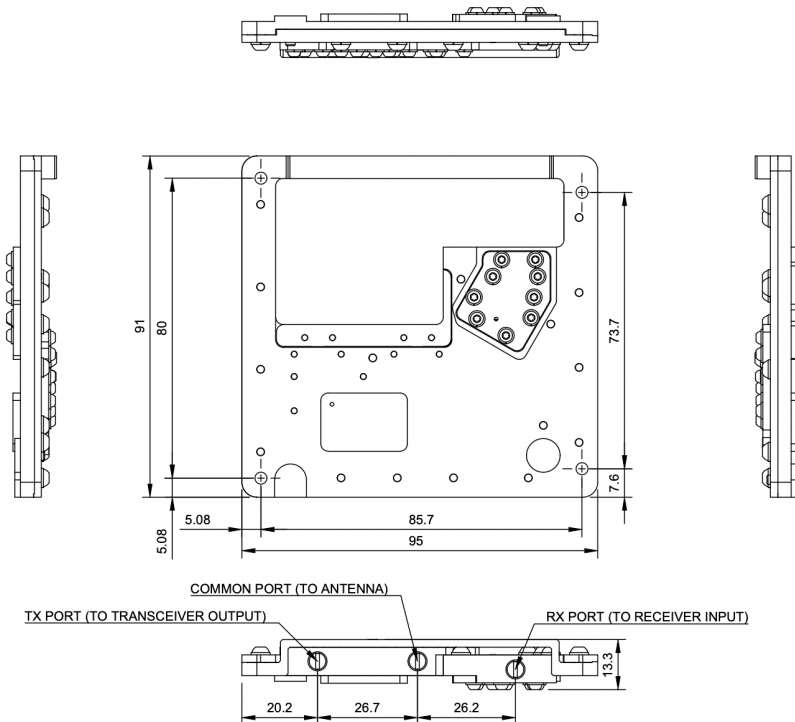
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Parameter	Value	Unit
RX frequency range (UL)	7145-7235	MHz
TX frequency range (DL)	8350-8500	MHz
Rejection TX to RX	>80	dB
Insertion Loss at TX	<1.5	dB
Insertion Loss at RX	<1.5	dB
Return Loss (all ports)	>15	dB
Group delay variation over entire bandwidth	<0.2	ns [p-p]
Power handling	>15	W [CW]
Operating temperature range	-40/+70	°C
Weight	115	g
Maximum linear dimension (X or Y)	96	mm
Maximum height (Z)	14.5	mm
RF interface	SMP male connectors	



all values in mm
STEP files available on request

Ordering code	Description
DXA	X band diplexer 7145-8500MHz, CubeSat compatible