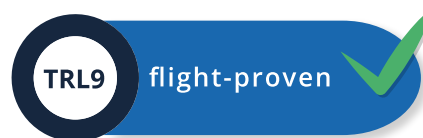


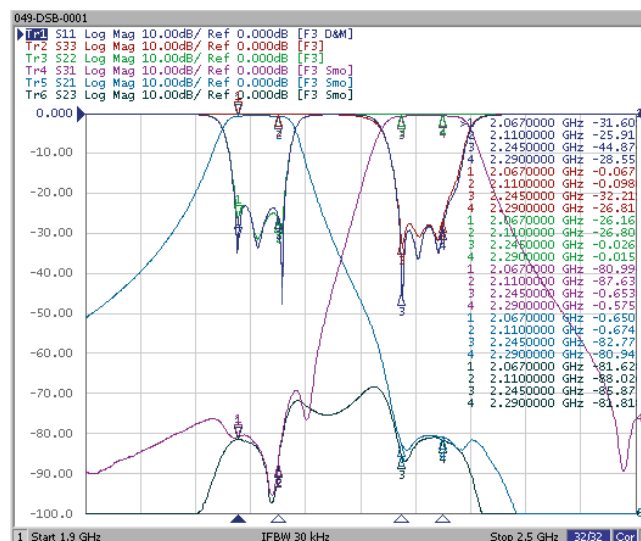
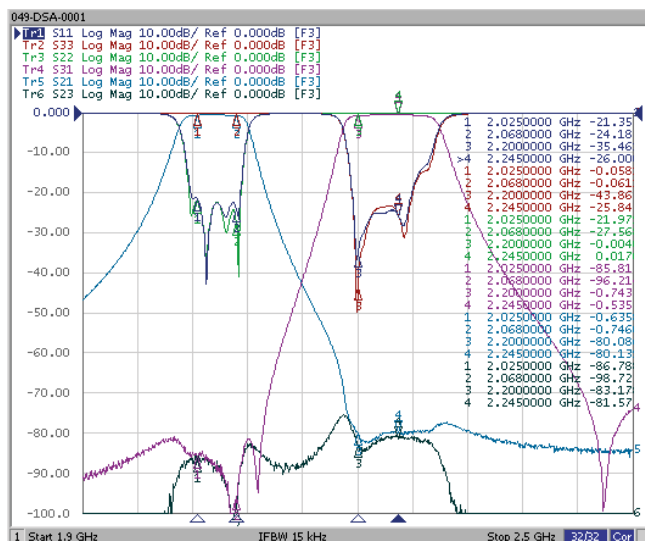
ABOUT

WiRan S-band diplexers provide full-duplex communication for data transmission and TM&TC using a single antenna. They are designed to operate in 2025-2290 MHz band.



FEATURES

- compliant with the CubeSat nanosatellite standard
- provides high isolation between RX & TX bands
- durable, mechanical-shock- and temperature-resistant aluminium housing
- fully compatible with WiRan S-band antenna
- two variants (A and B) available covering the entire 2025-2290 MHz range, no need for tuning based on channel allocation



S-Parameters available on request.



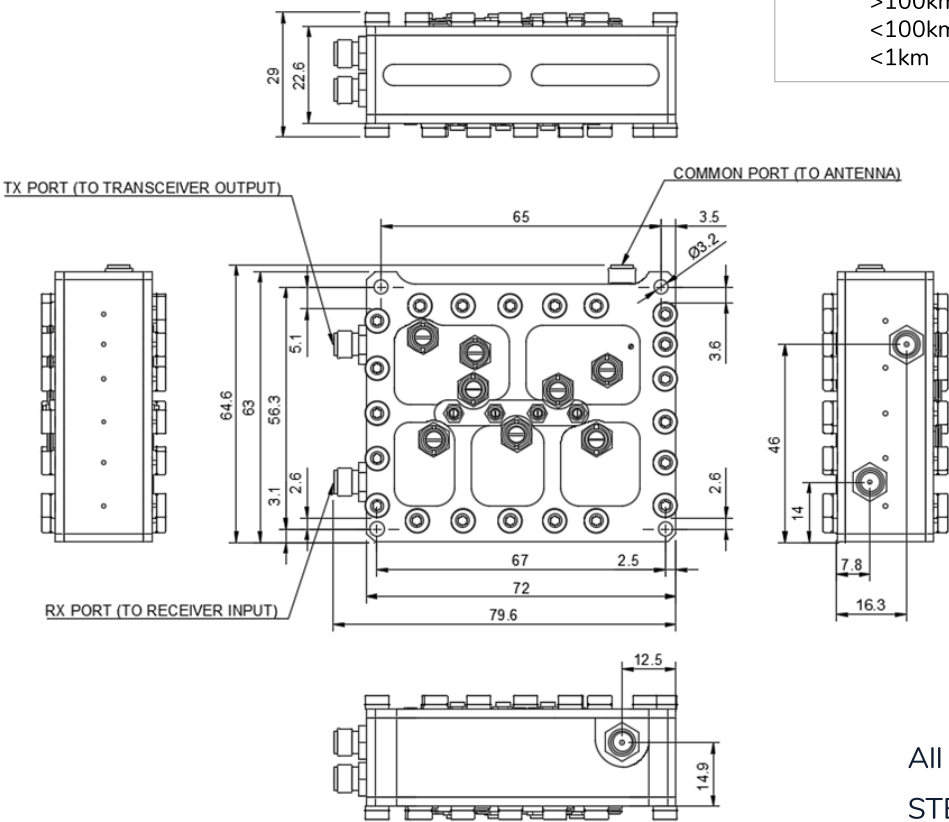


S-band Diplexer

for nanosatellites applications

Parameter	DSA	DSB	Unit
RX frequency range (UL)	2025-2068	2067-2110	MHz
TX frequency range (DL)	2200-2245	2245-2290	MHz
Isolation in TX and RX	Min. >75, typical 80		dB
Insertion Loss at TX f_{center}/f_{edge}	Max. 1/1.2; typical 0.7/0.8		dB
Insertion Loss at RX f_{center}/f_{edge}	Max. 1.2/1.5; typical 0.7/0.9		dB
Return Loss (all ports)	Min. >19; typical 22		dB
Power handling *	2.5		W
Operating temperature range	-40 ÷ +75		°C
Weight	220		g
Maximum X/Y linear dimension	80		mm
Maximum height Z	29		mm
RF interface	SMA female connectors		

* for altitudes:
>100km (multipactor limited) 2.5W
<100km (corona limited) 0.5W
<1km >20W



All values in mm.
STEP files available on request.

Ordering code	Description
DSA	Variant for 2025-2068 MHz (RX) & 2200-2245 MHz (TX)
DSB	Variant for 2067-2110 MHz (RX) & 2245-2290 MHz (TX)