



X-band Hybrid Coupler

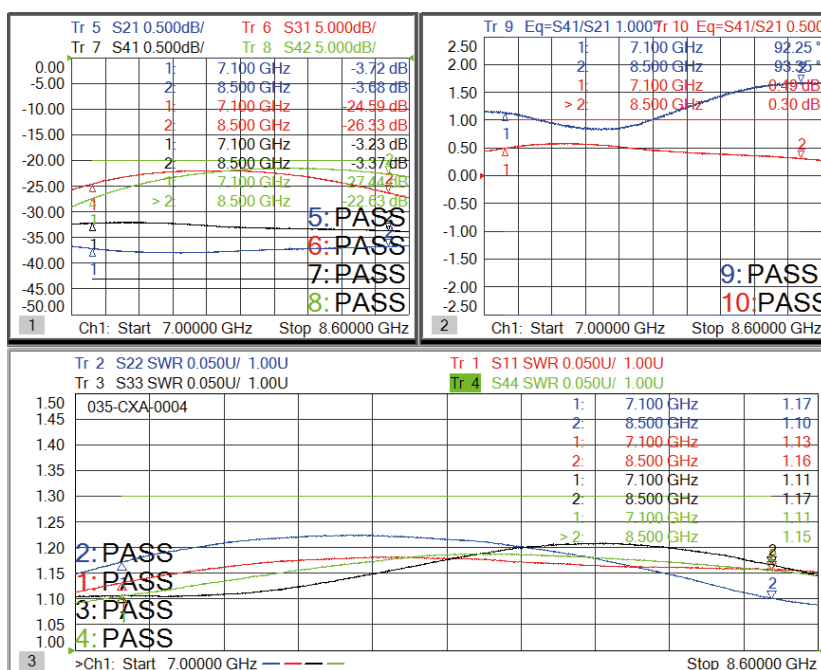
for nanosatellites applications

ABOUT

WiRan 90° Hybrid Couplers allow for easy and reliable splitting of an input RF signal equally between two output ports with a 90 degree phase shift. Can also work in reverse, combining 90 degree phase shifted signals.

FEATURES

- small dimensions, perfect for compact satellites
- excellent phase & amplitude balance
- low insertion loss & VSWR
- high isolation
- fully compatible with other WiRan X-band products (duplexer, antenna and power splitter)
- high power handling



S-Parameters available on request.

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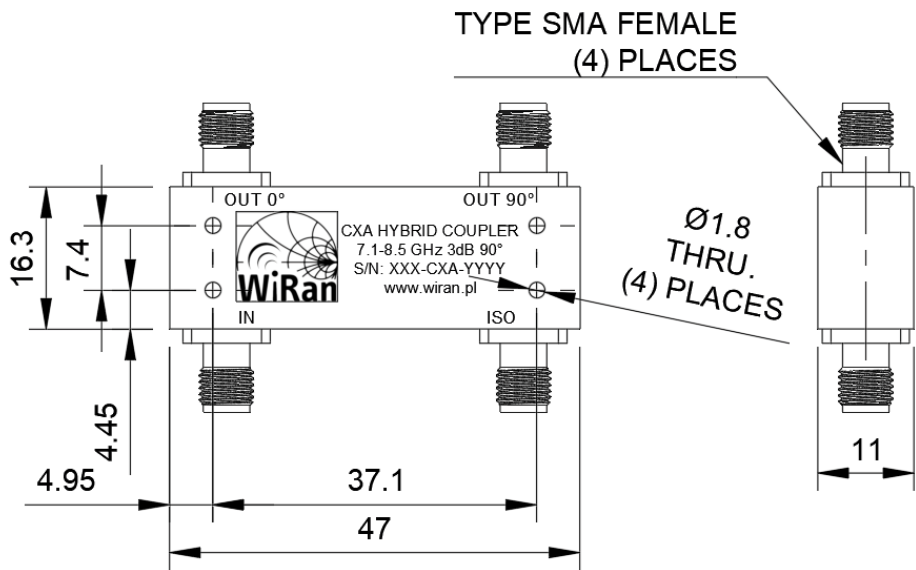


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Parameter	Value	Unit
Frequency range	7100-8500	MHz
Insertion loss	≤0.8 (above nominal split)	dB
Return loss	≥17.5	dB
Isolation	≥20	dB
Nominal Split	3.01±0.5	dB
Amplitude balance	≤±0.5	dB
Phase balance	≤±5	°
Power handling	≤30	Watt
Impedance	50	Ω
Port connectors	SMA female connectors	
Operating temperature	-75 ÷ +90	°C
Weight	35	g

* for altitude 1<h<100km - 11W (corona limited)



All values in mm.
STEP files available on request.

Ordering code	Description
CXA	X-band Hybrid Coupler 7100-8500 MHz, CubeSat compatible