



S-band Hybrid Coupler

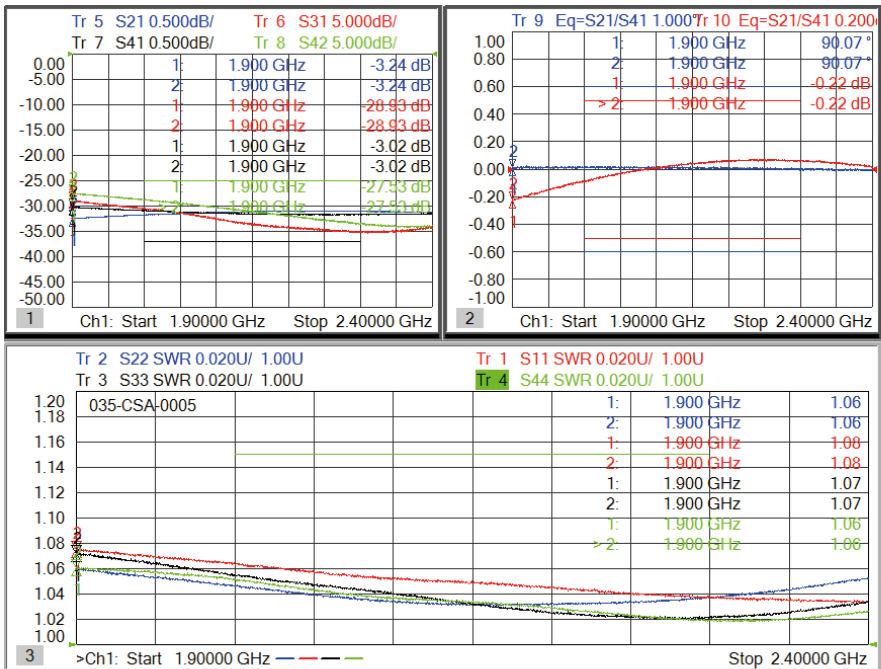
for nanosatellites applications

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 S-band products (duplexer, antenna and power splitter up to 2.3 GHz)
- high power handling



S-Parameters available on request.

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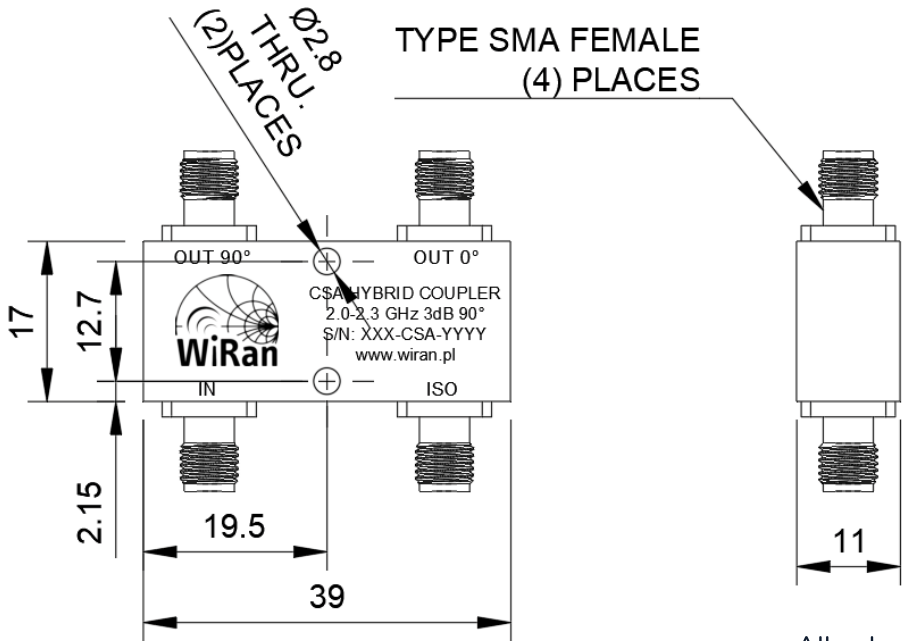


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Parameter	Value	Unit
Frequency Range	2000-2300	MHz
Insertion Loss	≤0.4 (above nominal split)	dB
Return Loss	≤23	dB
Isolation	≥25	dB
Nominal Split	3.01±0.3	dB
Amplitude Balance	≤0.5	dB
Phase Balance	≤±3	°
Power Handling *	≤30	Watt
Impedance	50	Ω
Port Connectors	SMA female connectors	
Operating Temperature	-75~+90	°C
Weight	32	g

* for altitude 1<h<100km - 7,5W (corona limited)



All values in mm.
STEP files available on request.

Ordering code	Description
CSA	S-band Hybrid Coupler 2000-2300 MHz, CubeSat compatible