



**Model Number: 22291-N5N5**

RF Engineering  
and Custom Build

# Hybrid 4-way L-band Active Splitter & Combiner

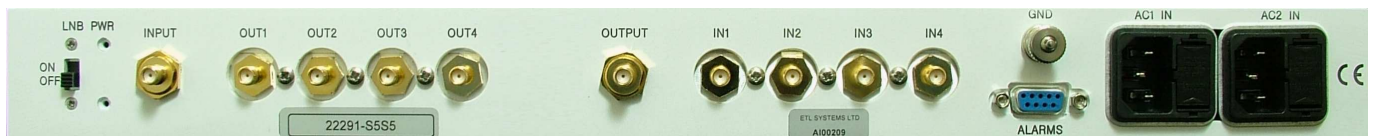
With LNB Powering (on the splitter only)



Front View of Model 22291-N5N5

This hybrid unit comprises of a 4-way L-band active splitter and a 4-way L-band active combiner accommodated in a 1U, 19" rack mountable chassis.

The unit benefits from LNB powering on the splitter and dual redundant power supplies, which can be monitored via the front panel status LEDs or via a dry contact alarm port on the rear panel.



Rear View Model 22291 supplied with 50 ohm SMA

This unit has 50 ohm N-type RF connectors but other impedances and connector types are available (model number will vary).





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Hybrid 4-way L-band Active Splitter & Combiner with LNB  
Powering (splitter only)

Technical specifications and operating parameters

## PRELIMINARY SPECIFICATIONS

RF Parameters			
<b>SPLITTER</b>			
Capacity	4-way		
Frequency Range	850-2150 MHz (L-band)		
Gain	1.5 dB $\pm$ 1 dB nominal, mean		
Flatness	850-2150MHz	$\pm$ 1.0 dB	$\pm$ 0.75 dB typical
1 dB Compression	0 dBm		
Noise Figure	6 dB		
Input Return Loss	15 dB typical		
Output Return Loss	15 dB typical		
<b>COMBINER</b>			
Capacity	4-way		
Frequency Range	850-2150 MHz (L-band)		
Gain	1.5 dB $\pm$ 1 dB nominal, mean		
Flatness	850-2150MHz	$\pm$ 1.0 dB	$\pm$ 0.75 dB typical
1 dB Compression	+ 10 dBm		
Noise Figure	16 dB		
Input Return Loss	15 dB typical		
Output Return Loss	15 dB typical		

Power	
AC Power	85-264Vac 50/60Hz
LNB Power	18V DC, 500mA via common (RF In) port (splitter only)
BUC Power	None
PSU	Dual redundant
Hot-swap PSU	No

Physical	
Input Connector	N-type
Input Impedance	50 $\Omega$
Output Connector	N-type
Output Impedance	50 $\Omega$
Dimensions	1U high x 350mm deep x 19" wide
Weight	8 kg
Colour	White 00-E-55 semi-gloss

System Control	
Display	Front Panel LED's for monitoring PSU's
Alarms	Dry contact alarm port on rear panel for PSU failure

Environmental	
Operating temperature	0 to 45°C
Location	Indoor use only
Storage temperature	-20°C to +75°C
Humidity	85% non-condensing

Key Features	
Hybrid unit containing 1 x 4-way Splitter & 1 x 4-way Combiner	
LNB Powering (on the splitter)	
Dual redundant power supplies	

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