



Model Number: 22225-N5N5

RF Engineering  
and Custom Build

# Hybrid 8-way L-band Active Splitter & Combiner

With 10MHz Pass



This hybrid unit comprises of an 8-way L-band active splitter and an 8-way L-band active combiner accommodated in a 2U, 19" rack mountable chassis.

Front View of Model 22225-N5N5

The unit provides 10MHz pass from port 1 to the common port for both the splitter and combiner ports, and benefits from 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 of Model 22225-N5N5

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





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## Technical specifications and operating parameters

RF Parameters	
<b>SPLITTER</b>	
Capacity	8-way
Frequency Range	850 -2150 MHz (L-band)
Gain	Gain -1 dB $\pm$ 1 dB nominal, mean
Amplitude Variations	850-2150MHz $\pm$ 1.0 dB
	Any 36MHz $\pm$ 0.5 dB
1 dB Compression	0 dBm
DC Block	Ports 2-8 Blocked
10 MHz Pass	Port 1 to Common Port
Input Return Loss	12 dB typical
Output Return Loss	15 dB typical
<b>COMBINER</b>	
Capacity	8-way
Frequency Range	850-2150 MHz (L-band)
Gain	-1 dB $\pm$ 1 dB nominal, mean
Amplitude Variations	850-2150MHz $\pm$ 1.0 dB
	Any 36MHz $\pm$ 0.5 dB
1 dB Compression	+10 dBm
DC Block	Ports 2-8 Blocked
10MHz Pass	Port 1 to Common Port
Input Return Loss	15 dB typical
Output Return Loss	15 dB typical

System Control	
Display	Front Panel LED's for Power & PSU
Alarms	Dry contact alarm port on rear

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

Physical	
Input Connector	N-type
Input Impedance	50 $\Omega$
Output Connector	N-type
Output Impedance	50 $\Omega$
Dimensions	2U high x 350mm deep x 19" wide
Weight	8 kg
Colour	White 00-E-55 semi-gloss

Power	
AC Power	85-264Vac 50/60Hz
LNB Power	None
PSU	Dual redundant
Hot-swap PSU	No

Key Features	
Hybrid unit containing 1 x 8-way Splitter & 1 x 8-way	
10MHz Pass	
Dual redundant power supplies	

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