



Model Number: 22273-N5N5

RF Engineering
and Custom Build

Hybrid 4-way L-band Active Splitter & Combiner

With DC & 10MHz Pass, & -20dB monitoring ports



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.

Front View of Model 22273-N5N5

The unit provides DC and 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.

This unit is also supplied with a -20dB monitoring port for both the splitter and combiner via the front panel, which monitors the output power level.



Rear View of Model 22273-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	
SPLITTER	
Capacity	4-way
Frequency Range	850 -2150 MHz (L-band)
Gain	+2 dB \pm 1 dB nominal, mean
Frequency Response	850-2150MHz \pm 1.0 dB
	Any 36MHz \pm 0.5 dB
1dB Compression	0 dBm
DC Pass	RF Port 1 to Common
10 MHz Pass	RF Port 1 to Common
Input Return Loss	12 dB typical
Output Return Loss	15 dB typical
COMBINER	
Capacity	4-way
Frequency Range	850-2150 MHz (L-band)
Gain	+2 dB \pm 1 dB nominal, mean
Frequency Response	850-2150MHz \pm 1.0 dB
	Any 36MHz \pm 0.5 dB
1dB Compression	+10 dBm
DC Pass	RF Port 1 to Common
10 MHz Pass	RF Port 1 to Common
Input Return Loss	15 dB typical
Output Return Loss	12 dB typical

System Control	
Display	Front Panel LED's for Power & PSU status
Monitoring	-20dB Monitoring Port for Splitter & Combiner (N-type on front panel)
Alarms	Dry contact alarm port on rear panel

Physical	
Input Connector	N-type
Input Impedance	50 Ω
Output Connector	N-type
Output Impedance	50 Ω
Dimensions	1U 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 & alarmed
Hot-swap PSU	No

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	
10MHz & DC Pass	
-20dB Monitoring Ports	
Dual redundant power supplies	



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