



Model Number: 22293-N5N5

RF Engineering
and Custom Build

4-way Single L-band Passive Splitter

With internal 10MHz source & LNB Powering



Front View of Model 22293-N5N5

This single 4-way passive L-band splitter benefits from switchable LNB powering and a 10MHz reference oscillator, which may be used to inject a reference signal onto the input port using the supplied U-link. If an external reference is to be used it may be connected to the 10MHz IP port directly.

The unit has dual redundant power supplies which can be visually monitored via front panel LEDs or via a dry contact alarm port on the rear panel.

One of the four outputs of the splitter is located on the front panel for convenient monitoring.



Rear View of Model 22293-N5N5

This particular unit is supplied with 50 ohm N-type connectors, but a range of connectors and impedances is available (model numbers will vary).





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Technical specifications and operating parameters

RF Parameters		
SPLITTER PARAMETERS		
Capacity	4-way	Passive
Frequency Range	850-2150 MHz (L-band)	
Insertion Loss	8 dB typical, mean across band	
Flatness	± 1 dB	
Input Return Loss	12 dB typical	
Output Return Loss	15 dB typical	
10MHz Injection	Yes	On common port - see below
10MHz SOURCE PARAMETERS		
Reference Source Ageing	± 5 x 10 ⁻⁸ / year ± 5 x 10 ⁻¹⁰ / year	
Reference source temperature stability	± 1 x 10 ⁻⁷	0 to 50°C
Reference Source Phase Noise	<-85 dBc / Hz @ 1Hz <-115 dBc / Hz @ 10Hz <-140 dBc / Hz @ 100Hz <-150 dBc / Hz @ 1000Hz <-155 dBc / Hz @ 10000Hz	
10MHz Ref Source	U-link on rear panel to select internal/ external. The 10MHz reference is injected onto the common L-band Port	Two 50 ohm BNC's on rear panel for 10MHz external IN and internal OUT, with a U-Link supplied. There is no 10MHz injection if the U-Link is removed and the port is terminated (i.e. no external source supplied)
10MHz Source Output Level	-1 dBm ± 2 dB	All ports must be terminated with 50Ω
10MHz Source Accuracy	Better than 1 ppm	

Power	
AC Power	85-264Vac 50/60Hz
LNB Power	18V DC, 500 mA switchable on/off from rear panel
PSU	Dual redundant
Hot-swap PSU	No

System Control	
Display	Front panel LED's for PSU & Power on/off status
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

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

Key Features	
Passive 4-way splitter	
Internal 10MHz source	
Dual redundant power supplies	
LNB Powering	

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