



Model Number: 22192-B5B5

RF Engineering  
and Custom Build

# Hybrid 8-way IF Active Splitter & Combiner



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

Front View of Model 22192-B5B5

The unit benefits from dual redundant power supplies, which can be monitored via the front panel status LED's or via a dry contact alarm port on the rear panel.



Rear View of Model 22192-B5B5

This particular unit has 50 ohm BNC 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	20-200 MHz (IF)	
Gain	1 dB $\pm$ 1 dB	
Flatness	Over 20-	$\pm$ 0.4 dB
	Any 36MHz	$\pm$ 0.25 dB
Gain Compression	0 dBm	
Noise Figure	10 dB	
Input Return Loss	12 dB typical	
Output Return Loss	20 dB typical	
<b>COMBINER</b>		
Capacity	8-way	
Frequency Range	20-200 MHz (IF)	
Gain	1 dB $\pm$ 1 dB	
Amplitude Variations	Over 20-	$\pm$ 0.4 dB
	Any 36MHz	$\pm$ 0.25 dB
Gain Compression	+ 10 dBm	
Noise Figure	19 dB	
Input Return Loss	20 dB typical	
Output Return Loss	12 dB typical	

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

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	BNC
Output Impedance	50 $\Omega$
Input Connector	BNC
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	None
LNB Power	85-264Vac 50/60Hz
PSU	Dual redundant
Hot-swap PSU	No

Key Features	
Hybrid unit containing 1 x 8-way Splitter & 1 x 8-way Combiner	
Dual redundant power supplies	
LED's on front panel to indicate PSU status	
Dry contact alarm port on rear panel for external power supply monitoring	

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