Model Number: 22364-xxxx

RF Engineering
and Custom Build

Hybrid 4-way L-band Active Splitter & Combiner

-20dB monitor ports & PSU status Ethernet monitoring

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 22364-xxxx

This unit has two front panel –20dB monitoring ports for the common splitter and combiner ports. The unit benefits from dual redundant power supplies which can be monitored via the front panel status LEDs, via a dry contact alarm port on the rear panel or via an Ethernet port.

Rear View of Model 22364-F7F7 (Supplied with 75 ohm F-type connectors)

This unit is available in a range of impedances and connector types (model numbers will vary).

Key Features

- Hybrid unit 1 x 4-way splitter and 1 x 4-way combiner
- -20dB Monitoring ports
- Ethernet port for PSU Monitoring
- Dual Redundant power supplies

Model Number: 22364-N5N5

Hybrid 4-way L-band Active Splitter & Combiner with -20dB monitoring ports & Ethernet Monitoring

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Technical specifications and operating parameters

RF Parameters

SPLITTER						
Capacity		4-way				
Frequency Range		850-2150 MHz (L-band)				
RF Connectors		50Ω SMA	50Ω N-type	50Ω BNC	75Ω BNC	75Ω F-type
Gain	Typical, mean across band	0 ±1.5 dB	0 ±1.5 dB	0 ±1.5 dB	0 ± 2 dB	0 ± 2.5 dB
Flatness	850-2150MHz	±1.0 dB	±1.2 dB	±1.5 dB	±1.8 dB	±2.0 dB
	Any 36MHz	±0.5dB	±0.5dB	±0.75dB	±0.75dB	±1.0 dB
Input Return Loss		18 dB typ	16 dB typ	15 dB typ	12 dB typ	10 dB typ
		14 dB min	12 dB min	12 dB min	10 dB min	7 dB min
Output Return Loss		18 dB typ	16 dB typ	15 dB typ	12 dB typ	10 dB typ
		14 dB min	12 dB min	12 dB min	10 dB min	7 dB min
Noise Figure		9 dB typ	9 dB typ	9 dB typ	9 dB typ	9 dB typ
1dB Gain Compression		5 dBm	5 dBm	5 dBm	5 dBm	5 dBm
Isolation		25 dB typ	25 dB typ	25 dB typ	25 dB typ	25 dB typ
COMBINER						
Capacity		4-way				
Frequency Range		850-2150 MHz (L-band)				
RF Connectors		50Ω SMA	50Ω N-type	50Ω BNC	75Ω BNC	75Ω F-type
Gain	Typical, mean across band	0 ±1.5 dB	0 ±1.5 dB	0 ±1.5 dB	0 ± 2 dB	0 ± 2.5 dB
Flatness	850-2150MHz	±1.0 dB	±1.2 dB	±1.5 dB	±1.8 dB	±2.0 dB
	Any 36MHz	±0.5dB	±0.5dB	±0.75dB	±0.75dB	±1.0 dB
Input Return Loss		18 dB typ	18 dB typ	14 dB typ	12 dB typ	10 dB typ
		14 dB min	14 dB min	10 dB min	8 dB min	8 dB min
Output Return Loss		18 dB typ	18 dB typ	14 dB typ	12 dB typ	10 dB typ
		14 dB min	14 dB min	10 dB min	8 dB min	8 dB min
Noise Figure		15 dB typ	15 dB typ	15 dB typ	15 dB typ	15 dB typ
1dB Gain Compression		14 dBm	14 dBm	14 dBm	14 dBm	14 dBm
Isolation		25 dB typ	25 dB typ	25 dB typ	25 dB typ	25 dB typ

System Control

Display	Front Panel LED's for Power & PSU status
Remote	RJ45 Ethernet port for PSU monitoring.
Alarms	Dry contact alarm port on rear panel and RJ45 Ethernet port for PSU failure
Monitoring Port	-20dB Monitoring Port for Splitter & Combiner common port monitoring

Physical

Dimensions	1U high x 350mm deep x 19" wide
Weight	7 kg
Colour	White 00-E-55 semi-gloss

Environmental

Operating temperature	0 to 55˚C
Location	Indoor use only
Storage temperature	-20˚C to +75˚C
Humidity	20-90% non-condensing

Power

AC Power	85-264Vac 50/60Hz	Fused 2A
AC Consumption	10 W	Total AC input
LNB/BUC Power	None	
PSU	Dual redundant	Diode OR
Hot-swap PSU	No	

Key Features

- Hybrid unit containing 1 x 4-way Splitter & 1 x 4-way Combiner
- -20dB Monitoring Ports
- Ethernet port for PSU Monitoring
- Dual redundant power supplies

Esatcom Inc.
www.esatcom.com
Tel: 718.276.0800
Email: sales@esatcom.com

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