

...designed for perfect signals

## Extended L-Band Active Splitters (4-way, 8-way, 16-way)

The LSA Baseline series represents professional active L-Band splitters in a compact 1RU/19" rack mount chassis. The units are available as single units (1:4, 1:8, 1:16) or dual units (2 x 1:4, 2 x 1:8, 2 x 1:16) and are especially designed for applications where stable and accurate signal quality is necessary.

The units support extended L-Band frequency range 850 – 2450MHz ready for KA-Band and HTS applications. Additionally, they feature switchable LNB-supply (13/18VDC, 22kHz), RF power monitoring, a rear-side 10MHz external reference signal port and have 1:1 redundant dual power supply. Front side status LED's indicating and monitoring the health status of the unit. Remote configuration, monitoring and alarming can be done via an RJ45 Ethernet-Interface (WebGUI, SNMP).



### FEATURES & BENEFITS

- ▶ Extended L-Band frequency (850 – 2450MHz)
- ▶ Available as single or dual splitters
- ▶ 50Ohm SMA(f) / BNC(f) or 75Ohm F(f) / BNC(f)
- ▶ Front panel status LED's
- ▶ RF power monitoring
- ▶ Switchable LNB-supply 0/13/18VDC, 22kHz tone
- ▶ 10MHz external reference signal input
- ▶ Remote configuration and monitoring (WebGUI, SNMP)
- ▶ 1:1 redundant dual power supply

### TECHNICAL SPECIFICATIONS

<b>Dimensions:</b>	1RU/19" rack mount
<b>Power Supply:</b>	85 – 230V, 50/60Hz, 1:1 redundant
<b>Power Consumption:</b>	<10W (without LNB-supply) / <20W (with LNB-supply)
<b>Frequency Range:</b>	850 – 2450MHz (extended L-Band)
<b>Input/Output Connectors:</b>	50Ohm SMA(f), 50Ohm BNC(f), 75Ohm F(f), 75Ohm BNC(f)
<b>Input RF Power:</b>	+6dBm max
<b>Input/Output Return Loss:</b>	16dB min., 20dB typ.
<b>Noise Figure:</b>	5dB typ., 6dB max.
<b>Isolation:</b>	20dB min., 23dB typ.
<b>Insertion Loss:</b>	0dB typ., ±1.0dB max.



<b>Frequency Response:</b>	50Ohm Type: $\pm 1.0\text{dB}$ typ. $\pm 1.5\text{dB}$ max, $\pm 0,25\text{dB}$ @ any 36MHz 75Ohm Type: $\pm 1.25\text{dB}$ typ. $\pm 2.0\text{dB}$ max, $\pm 0,3\text{dB}$ @ any 36MHz
<b>P1dB:</b>	+6dBm typ.
<b>IMA3 @ -10dBm:</b>	-46dBc typ.
<b>SFDR:</b>	< - 80dBm
<b>Switchable LNB-Supply:</b>	0/13/18VDC, 22kHz tone, 400mA
<b>RF Power Monitoring:</b>	-60 to +5dBm ( $\pm 1,5\text{dB}$ accuracy), dynamic range
<b>10MHz Reference Port:</b>	50Ohm SMA(f) rear-side
<b>Remote Configuration:</b>	RJ45 Ethernet Interface (WebGUI, SNMP)
<b>Status LED's:</b>	LNB-supply, Power supply, Splitter Module(s), Ethernet status
<b>Operating Temperature:</b>	0°C to 50°C
<b>Storage Temperature:</b>	-20° to 70°C
<b>Humidity:</b>	90%, non-condensing
<b>RoHS:</b>	Compliant

## ORDER INFORMATION

### Type with 50Ohm SMA(f)

Module Type	Type No.	Short Description
LSA104-50S	9000844	Active L-Band Splitter, 1 x 1:4
LSA108-50S	9000845	Active L-Band Splitter, 1 x 1:8
LSA116-50S	9000846	Active L-Band Splitter, 1 x 1:16
LSA204-50S	9000860	Active Dual L-Band Splitter, 2 x 1:4
LSA208-50S	9001136	Active Dual-Band Splitter, 2 x 1:8
LSA216-50S	9001131	Active Dual-Band Splitter, 2 x 1:16

### Type with 75Ohm F(f)

Module Type	Type No.	Short Description
LSA104-75F	9000913	Active L-Band Splitter, 1 x 1:4
LSA108-75F	9000988	Active L-Band Splitter, 1 x 1:8
LSA116-75F	9000965	Active L-Band Splitter, 1 x 1:16
LSA204-75F	9000858	Active Dual L-Band Splitter, 2 x 1:4
LSA208-75F	9000890	Active Dual-Band Splitter, 2 x 1:8
LSA216-75F	9000944	Active Dual-Band Splitter, 2 x 1:16

### Type with 50Ohm BNC(f)

Module Type	Type No.	Short Description
LSA104-50B	9001139	Active L-Band Splitter, 1 x 1:4
LSA108-50B	9001134	Active L-Band Splitter, 1 x 1:8
LSA116-50B	9000984	Active L-Band Splitter, 1 x 1:16
LSA204-50B	9000861	Active Dual L-Band Splitter, 2 x 1:4
LSA208-50B	9001137	Active Dual-Band Splitter, 2 x 1:8
LSA216-50B	9001132	Active Dual-Band Splitter, 2 x 1:16

### Type with 75Ohm BNC(f)

Module Type	Type No.	Short Description
LSA104-75B	9001140	Active L-Band Splitter, 1 x 1:4
LSA108-75B	9001135	Active L-Band Splitter, 1 x 1:8
LSA116-75B	9001130	Active L-Band Splitter, 1 x 1:16
LSA204-75B	9000859	Active Dual L-Band Splitter, 2 x 1:4
LSA208-75B	9001138	Active Dual-Band Splitter, 2 x 1:8
LSA216-75B	9001133	Active Dual-Band Splitter, 2 x 1:16