



LSA BaseLine Series

...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" rackmount 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 (Option)
- Remote configuration and monitoring (WebGUI, SNMP)
- 1:1 redundant dual power-supply

TECHNICAL SPECIFICATIONS

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

Frequency Response:	50Ohm Type: $\pm 1.0\text{dB typ. } \pm 1.5\text{dB max, } \pm 0.25\text{dB @ any 36MHz}$ 75Ohm Type: $\pm 1.25\text{dB typ. } \pm 2.0\text{dB max, } \pm 0.3\text{dB @ any 36MHz}$
P1dB:	+6dBm typ.
IMA3 @ -10dBm:	-46dBc typ.
SFDR:	< - 80dBm
Switchable LNB-Supply:	0/13/18VDC, 22kHz tone (ON/OFF), 400mA
RF Power Monitoring:	-60 to +5dBm ($\pm 1.5\text{dB accuracy}$), dynamic range
10MHz Reference Port:	50Ohm SMA(f) rear-side
Remote Configuration:	RJ45 Ethernet Interface (WebGUI, SNMP)
Status LED's:	LNB-supply, Power-supply, Splitter Module(s), Ethernet status
Operating Temperature:	0°C to 50°C
Storage Temperature:	-20° to 70°C
Humidity:	90%, non-condensing
RoHS:	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