

LSA BaseLine Series

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

The LSA Baseline series represents professional L-Band active splitters in a compact 1RU/19" rack mount chassis, especially designed for applications where excellent, stable and accurate signal quality is necessary
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 support extended L-Band frequency range 850 – 2450MHz ready for KA-Band and HTS applications.

Additionally, the units feature switchable LNB-supply (13/18VDC, 22kHz), RF power monitoring, a rear-side 10MHz external reference signal port and 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
- 10MHz & DC Through (Option 095)
- Remote configuration and monitoring (WebGUI, SNMP)
- 1:1 redundant dual power supply

TECHNICAL SPECIFICATIONS

Dimensions:	1RU/19” rack mount
Power Supply:	85 – 264V, 50/60Hz, 1:1 redundant
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., ±1.0dB max.
Frequency Response:	50Ohm Type: ±1.0dB typ. ±1.5dB max, ±0,25dB @ any 36MHz 75Ohm Type: ±1.25dB typ. ±2.0dB max, ±0,3dB @ any 36MHz
P1dB:	+6dBm typ.
IMA3 @ -10dBm:	-46dBc typ.
SFDR:	< - 80dBm
Switchable LNB-Supply:	0/13/18VDC, 22kHz tone, 400mA
RF Power Monitoring:	-60 to +5dBm (±1,5dB accuracy), dynamic range
10MHz Reference Port:	50Ohm SMA(f) rear-side
Remote Configuration:	RJ45 Ethernet Interface (WebGUI, SNMP)
Status LED´s:	Power supply, Splitter Module(s), Ethernet status
Operating Temperature:	0°C to 50°C
Storage Temperature:	-20° to 70°C
MTBF:	390khours MIL-HDBK-217F (25°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 L-Band Splitter, 2 x 1:8
LSA216-50S	9001131	Active Dual L-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 L-Band Splitter, 2 x 1:8
LSA216-75F	9000944	Active Dual L-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 L-Band Splitter, 2 x 1:8
LSA216-50B	9001132	Active Dual L-and 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 L-Band Splitter, 2 x 1:8
LSA216-75B	9001133	Active Dual L-Band Splitter, 2 x 1:16

OPTIONS

Type	Type No.	Short Description
Option 095	9001176	10MHz and DC Through, Port #1 to Common Port, for EcoLine & BaseLine Splitters and Combiners
Option10M - 10MHz Internal Source	9001531	10MHz sine Wave, +5dBm, Aging ±500 ppb max. @ 10 years: Phase Noise -90 dBc @ 1 Hz, -120 dBc @ 10 Hz, -142 dBc @ 100 Hz, -155 dBc @ 1 kHz, -160 dBc @ 10 kHz.