



LSEL EcoLine Series

Extended L-Band Splitters Active (4-way, 8-way, 16-way, 32-way)

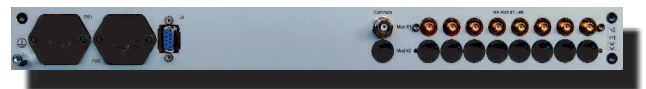
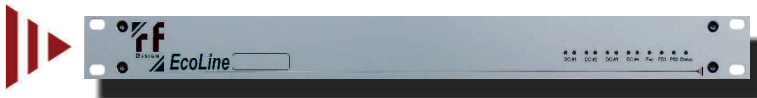
Made in Germany

GENERAL

The LSEL EcoLine series represents cost effective active L-Band splitters available as single splitters (1:4, 1:8, 1:16 and 1:32) or dual splitter units (2 x 1:4, 2 x 1:8 and 2 x 1:16) each housed into a compact and space saving 1RU/19" rack-mount chassis.

This units operate within the extended L-Band frequency-range (850...2450MHz) ready for KA-Band and HTS applications and allow easy splitting of one input to up to 32 outputs with zero loss. The units feature LNB-supply (switchable ON/OFF) and 1:1 dual power supply redundancy. Optionally the units can be equipped with a 10MHz external reference signal input port for feeding a 10MHz signal e.g to BUC's, a LNB or other devices. Front side colored status LED's display the health status of each power-supply and status of LNB-supply while the unit is additionally equipped with a potential free alarm/error contact interface.

The LSEL EcoLine series splitters are available with 50Ohm SMA(f) or BNC(f) as well as 75Ohm F(f) or BNC(f) connectors and a perfect fit for Satellite-, Broadcast and Broadband RF distribution infrastructures such as for Teleports, Earth-Stations or Cable/IPTV headend operations.



FEATURES

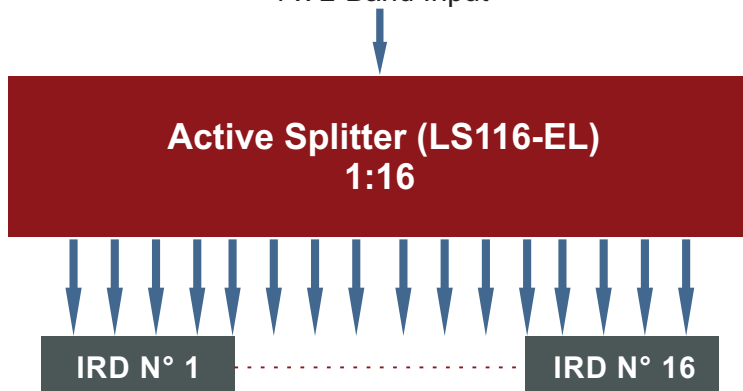
- Space saving 1RU/19" rack mount design
- Excellent price-performance ratio
- Extended L-Band frequency (850...2450MHz) also suitable for KA-Band and HTS applications
- Available as single 1:4, 1:8, 1:16 and 1:32 or dual 1:4, 1:8 and 1:16 (2 x 1:4, 2 x 1:8 or 2 x 1:16) active splitters
- Coming with 50Ohm SMA(f)/BNC(f) or 75Ohm F(f)/BNC(f) connectors (mixed input/output connectors possible upon request)
- Internally amplified zero loss active splitter units
- Professional PCB design assuring excellent RF performance, quality and reliability
- Supports switchable LNB-supply 18VDC (ON/OFF), 400mA
- 10MHz external reference signal input (Option)
- Colored LED's displaying power-supply & LNB-supply status
- Potential free alarm/error contact (DB9-female)
- 1:1 redundant dual power-supply

TECHNICAL SPECIFICATIONS

- **Dimensions:** 1RU/19" rack-mount
- **Power supply:** 85...230V, 50/60Hz (1:1 redundant)
- **Power consumption:** < 20W (with LNB-supply ON)
- **Splitter variants:** 1:4, 1:8, 1:16, 1:32
Dual 1:4, 1:8, 1:16
- **Frequency range:** 850...2.450MHz (Extended L-Band)
- **Connectors:** 50Ohm SMA(f)/BNC(f) or 75Ohm F(f)/BNC(f)
- **Input RF power**
@ 1:4, 1:8, 1:16: +20dBm max.
@ 1:32: +23dBm max.
- **In-/Output Return loss:** 16dB typ., ≥ 14dB min.
- **Noise figure**
@ 1:4, 1:8, 1:16 (50/75Ohm): 4dB typ.
@ 1:32 (50Ohm): 8dB typ.
@ 1:32 (75Ohm): 9dB typ.
- **Isolation:** 20dB typ
- **Insertion loss:** 0dB ± 1dB max.
- **Frequency response:** ± 1dB max.
- **1dB Compression**
@ 1:4: +10dBm
@ 1:8: +7dBm
@ 1:16 & 1:32: +3dBm
- **IMA3 @ -10dBm:** < -50dBc
- **LNB-supply:** 18VDC (ON/OFF), 400mA
current monitoring protection
- **10MHz reference port:** 50Ohm SMA(f), (Option)
- **Status LED's:** Power-supply / LNB-supply
- **Potential free alarm contact:** DB9-female (rear side)
- **Operating temperature:** 0...50°C
- **Storage temperature:** - 20°C...75°C
- **Humidity:** 90% non-condensing
- **RoHS:** compliant

APPLICATION EXAMPLE

1 x L-Band Input



>> please continue to next page for order information



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ORDER INFORMATION

50Ohm SMA(f) connectors

- **LS104EL-50S:** Active L-Band Splitter, 1 x 1:4, LNB-supply, 50Ohm SMA(f), 1RU/19" rack mount, EcoLine
- **LS108EL-50S:** Active L-Band Splitter, 1 x 1:8, LNB-supply, 50Ohm SMA(f), 1RU/19" rack mount, EcoLine
- **LS116EL-50S:** Active L-Band Splitter, 1 x 1:16, LNB-supply, 50Ohm SMA(f), 1RU/19" rack mount, EcoLine
- **LS132EL-50S:** Active L-Band Splitter, 1 x 1:32, LNB-supply, 50Ohm SMA(f), 1RU/19" rack mount, EcoLine
- **LS2104EL-50S:** Active **Dual** L-Band Splitter, 2 x 1:4, LNB-supply, 50Ohm SMA(f), 1RU/19" rack mount, EcoLine
- **LS2108EL-50S:** Active **Dual** L-Band Splitter, 2 x 1:8, LNB-supply, 50Ohm SMA(f), 1RU/19" rack mount, EcoLine
- **LS2116EL-50S:** Active **Dual** L-Band Splitter, 2 x 1:16, LNB-supply, 50Ohm SMA(f), 1RU/19" rack mount, EcoLine

50Ohm BNC(f) connectors

- **LS104EL-50B:** Active L-Band Splitter, 1 x 1:4, LNB-supply, 50Ohm BNC(f), 1RU/19" rack mount, EcoLine
- **LS108EL-50B:** Active L-Band Splitter, 1 x 1:8, LNB-supply, 50Ohm BNC(f), 1RU/19" rack mount, EcoLine
- **LS116EL-50B:** Active L-Band Splitter, 1 x 1:16, LNB-supply, 50Ohm BNC(f), 1RU/19" rack mount, EcoLine
- **LS132EL-50B:** Active L-Band Splitter, 1 x 1:32, LNB-supply, 50Ohm BNC(f), 1RU/19" rack mount, EcoLine
- **LS2104EL-50B:** Active **Dual** L-Band Splitter, 2 x 1:4, LNB-supply, 50Ohm BNC(f), 1RU/19" rack mount, EcoLine
- **LS2108EL-50B:** Active **Dual** L-Band Splitter, 2 x 1:8, LNB-supply, 50Ohm BNC(f), 1RU/19" rack mount, EcoLine
- **LS2116EL-50B:** Active **Dual** L-Band Splitter, 2 x 1:16, LNB-supply, 50Ohm BNC(f), 1RU/19" rack mount, EcoLine

75Ohm F(f) connectors

- **LS104EL-75F:** Active L-Band Splitter, 1 x 1:4, LNB-supply, 75Ohm F(f), 1RU/19" rack mount, EcoLine
- **LS108EL-75F:** Active L-Band Splitter, 1 x 1:8, LNB-supply, 75Ohm F(f), 1RU/19" rack mount, EcoLine
- **LS116EL-75F:** Active L-Band Splitter, 1 x 1:16, LNB-supply, 75Ohm F(f), 1RU/19" rack mount, EcoLine
- **LS132EL-75F:** Active L-Band Splitter, 1 x 1:32, LNB-supply, 75Ohm F(f), 1RU/19" rack mount, EcoLine
- **LS2104EL-75F:** Active **Dual** L-Band Splitter, 2 x 1:4, LNB-supply, 75Ohm F(f), 1RU/19" rack mount, EcoLine
- **LS2108EL-75F:** Active **Dual** L-Band Splitter, 2 x 1:8, LNB-supply, 75Ohm F(f), 1RU/19" rack mount, EcoLine
- **LS2116EL-75F:** Active **Dual** L-Band Splitter, 2 x 1:16, LNB-supply, 75Ohm F(f), 1RU/19" rack mount, EcoLine

75Ohm BNC(f) connectors

- **LS104EL-75B:** Active L-Band Splitter, 1 x 1:4, LNB-supply, 75Ohm BNC(f), 1RU/19" rack mount, EcoLine
- **LS108EL-75B:** Active L-Band Splitter, 1 x 1:8, LNB-supply, 75Ohm BNC(f), 1RU/19" rack mount, EcoLine
- **LS116EL-75B:** Active L-Band Splitter, 1 x 1:16, LNB-supply, 75Ohm BNC(f), 1RU/19" rack mount, EcoLine
- **LS132EL-75B:** Active L-Band Splitter, 1 x 1:32, LNB-supply, 75Ohm BNC(f), 1RU/19" rack mount, EcoLine
- **LS2104EL-75B:** Active **Dual** L-Band Splitter, 2 x 1:4, LNB-supply, 75Ohm BNC(f), 1RU/19" rack mount, EcoLine
- **LS2108EL-75B:** Active **Dual** L-Band Splitter, 2 x 1:8, LNB-supply, 75Ohm BNC(f), 1RU/19" rack mount, EcoLine
- **LS2116EL-75B:** Active **Dual** L-Band Splitter, 2 x 1:16, LNB-supply, 75Ohm BNC(f), 1RU/19" rack mount, EcoLine

OPTIONS

- Option 096: 10MHz external reference signal port (via common port)

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