

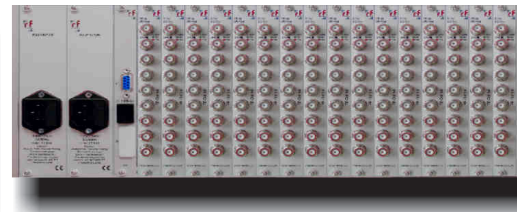


## MFC/LSA Series

### Modular Active L-Band Splitters, EcoLine

#### GENERAL

The MFC/LSA series represents a modular-type L-Band splitting solution combining the MFC main-chassis (MFC316R2 & MFC416R2) and the corresponding LSA splitter-modules allowing L-Band signal splitting from 4 to 16 outputs (see order information below). The LSA splitter-modules (1:4, 1:8, 1:16) can be inserted into the MFC main-chassis rear-side slots making. Each splitter-module provide 10MHz external reference as well as switchable LNB-supply while the MFC Main-Chassis is equipped with 2 power-supply units assuring 1:1 hot-swappable power-supply redundancy. Various additional options are also available (see order-information) The LSA splitter-modules are available with 50Ohm SMA(f) or 75Ohm F(f) connectors (see order-information).



#### FEATURES

- ▶ Flexible modular L-Band splitting solution
- ▶ Compact and space-saving 3 and 4RU/19" chassis
- ▶ Splitter-module slots at the rear of the chassis
- ▶ Various splitting modules available 1:4, 1:8 or 1:16
- ▶ Switchable LNB supply 18VDC, 400mA individually for each splitter-module, Fuse protected 450mA
- ▶ Front-side LED's displaying LNB-supply and power-supply status
- ▶ 1:1 power supply redundancy, hot swappable
- ▶ Various Options available

#### CHASSIS ORDER INFORMATION

- ▶ **MFC316R2:** 3RU/19" Main-Chassis for 16 x 1:4 EcoLine splitter-modules (LSA104R2EL)
- ▶ **MFC416R2:** 4RU/19" Main-Chassis for 16 x 1:8 EcoLine splitter-modules (LSA108R2EL) 08 x 1:16 EcoLine splitter-modules (LSA116R2EL)

#### SPLITTER-MODULE ORDER INFORMATION

##### In-/Output: 50Ohm SMA(f) connectors

- ▶ **LSA104R2EL:** 1:4 active splitter-module (fits 16x into MFC316R2 chassis)
- ▶ **LSA108R2EL:** 1:8 active splitter-module (fits 16 x into MFC416R2 chassis)
- ▶ **LSA116R2EL:** 1:16 active splitter-module (fits 8 x into MFC416R2 chassis)

##### In-/Output: 75Ohm F(f) connectors

- ▶ **LSA104R2EL-75:** 1:4 active splitter-module (fits 16 x into MFC316R2 chassis)
- ▶ **LSA108R2EL-75:** 1:8 active splitter-module (fits 16 x into MFC416R2 chassis)
- ▶ **LSA116R2EL-75:** 1:16 active splitter-module (fits 8 x into MFC416R2 chassis)

#### TECHNICAL SPECIFICATIONS

- ▶ **Dimensions:** 3or 4RU/19", 300mm depth
- ▶ **Power supply:** 85...230V, 50/60Hz 1:1 redundant (hot-swap)
- ▶ **Power consumption:** <60W (fully loaded)
- ▶ **MFC Chassis splitter slots:** 16 (for max. 16 x LSA104/108) 08 (for max. 8 x LSA116)
- ▶ **L-Band splitting variants:** 1:4, 1:8 or 1:16
- ▶ **Potential free error cont.:** DB9-female
- ▶ **Frequency range:** 950...2150MHz
- ▶ **Input/Output connectors:** 50Ohm SMA(f) or 75Ohm F(f)
- ▶ **Isolation:** ≥ 25dB (50Ohm)/ ≥ 20dB (75Ohm)
- ▶ **Insertion loss:** 0dB typ., ± 0,5dB max.
- ▶ **Frequency response:** ±0,5dB typ, < ± 1dB max.
- ▶ **1dB Compression:** ≤ +10dBm
- ▶ **Input Return loss:** ≥ 16dB typ.
- ▶ **Output Return loss:** ≥ 18dB typ.
- ▶ **IMA3 @ -10dBm:** < -56dBc
- ▶ **Noise figure:** ≤ 5dB
- ▶ **SwitchableLNB supply:** 18VDC, 400mA Fuse protected 450mA
- ▶ **Status LED's:** LNB-supply & PSU monitoring
- ▶ **Operating temperature:** 0...45°C
- ▶ **Storage temperature:** -10°C...70°C
- ▶ **Humidity:** 90% non-condensing

#### Options

- ▶ **Option 091:** DC Intern / 10MHz Extern Common-Port n.A.
- ▶ **Option 092:** DC / 10MHz Pass Through Port1/Common
- ▶ **Option 093:** DC Pass Through Port1/Common
- ▶ **Option 094:** 10MHz Pass Through Port1/Common
- ▶ **Option 095:** 10MHz Pass Through Port1/Common