

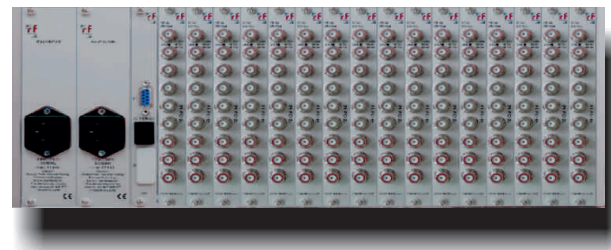
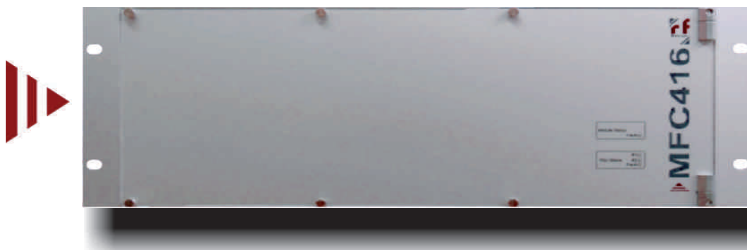
MFC/LSA Series

Modular active L-Band splitters

Made
in
Germany

GENERAL

The MFC/LSA series represents a high-quality and professional modular L-Band splitting system combining the MFC main-chassis (MFC316R2 & MFC416R2) and the corresponding LSA active 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 it a very flexible and expandable solution. The system supports switchable LNB-supply and each splitter-module is equipped with status LED's indicating LNB-supply status. The MFC Main-Chassis is equipped with 2 power-supply units assuring 1:1 hot-swappable power-supply redundancy and also has front-panel status LED's displaying the health status of each power-supply and inserted splitter-module. 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
- LNB-supply 18VDC (ON/OFF), 400mA
- Front panel status LED's displaying LNB-supply, splitter-module and power-supply health status
- Alarm indication via front-side LED's and rear-side potential free alarm contact (RS232 DB9-female)
- 1:1 redundant dual power supply (hot swappable)

CHASSIS ORDER INFORMATION

- **MFC316R2:** 3RU/19" Main-Chassis for 16 x 1:4 active Splitter-modules (LSA104R2EL)
- **MFC416R2:** 4RU/19" Main-Chassis for 16 x 1:8 active Splitter-modules (LSA108R2EL) and 08 x 1:16 active 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
- **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
- **LNB supply:** 18VDC (ON/OFF), 400mA
fuse protected 450mA
- **Potential free alarm contact:** RS232 DB9-female (status monitoring/alarming)
- **Status LED's:** LNB-supply & PSU status-monitoring & alarming
- **Operating temperature:** 0...45°C
- **Storage temperature:** -10°C...70°C
- **Humidity:** 90% non-condensing
- **RoHS:** Compliant