

Diplexer for Mobile Telephone (136 - 1300 MHz) and Car Radio (0 - 108 MHz) with built-in low noise amplifier

DESCRIPTION

- Diplexer for simultaneous operation of mobile telephone and car radio on a common mobile radio antenna.
- A single diplexer covers all communication bands 136 - 1300 MHz.
- Built-in low-noise SMD-equipped amplifier in the car radio section gives freedom of choice of mobile telephone antenna.
- Better reception of car radio signals due to the built-in low-noise amplifier.
- Power supply of the low-noise amplifier via the car radio cable or by direct wiring.
- Extremely compact.
- Quick installation using dual-adhesive pad provided.
- FME-connections on antenna and mobile telephone terminals
 - CRC connection (M10 x 0.75) on the car radio terminal.
 - Power supply 12 V to the low-noise amplifier via CRC-connection.
- Procom 75 Ohm car radio cable available as an option.



SPECIFICATIONS

| Electrical | |
|---------------------|--|
| Model | LH 108/136 AMP |
| Frequency | Mobile telephone : 136 - 1300 MHz Car radio : 0 - 108 MHz |
| Max. Input Power | 35 W |
| Amp. Gain | 0 - 108 MHz : 6 dB |
| Insertion Loss | 136 - 1300 MHz : 0.8 dB |
| Impedance | COM : 50 Ω, VSWR < 1.5:1 Radio : 75 Ω |
| Power Supply | +12 V from the car via CRC-connection or directly |
| Current Consumption | ~ 25 mA |

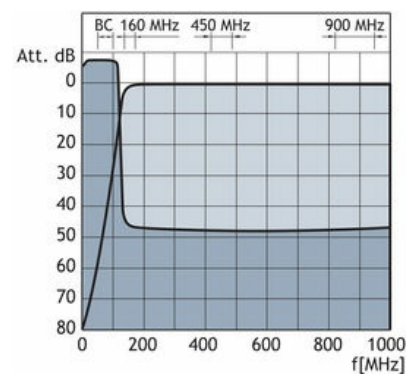
| Mechanical | |
|---------------|---|
| Connection(s) | Antenna : FME COM : FME Radio : CRC-Connector (M10 x 0.75) |
| Dimensions | 50 x 21 x 60 mm / 1.97 x 0.83 x 1.97 in. |
| Weight | Approx. 0.073 kg / 0.16 lb. |
| Accessories | Car radio cable Type 1 m CRC (length 1 m) Type 5 m CRC (length 5 m) |

| Environmental | |
|-----------------------------|------------------|
| Operating temperature range | -30 °C to +70 °C |

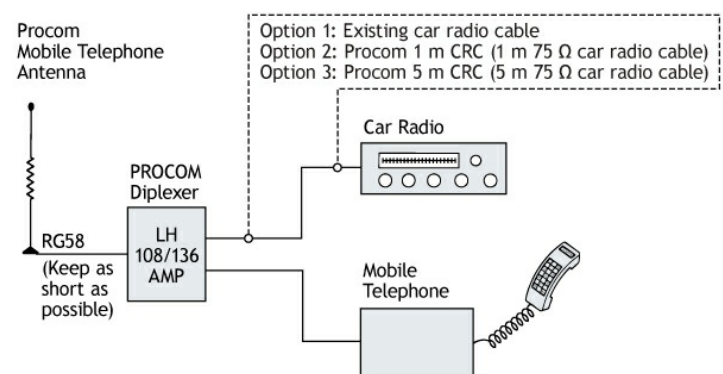
ORDERING

| Model | Product No. |
|----------------|-------------|
| LH 108/136 AMP | 200000768 |

TYPICAL RESPONSE CURVE



CONNECTION DIAGRAM



INSTALLATION NOTE

- The 50 Ω cable between antenna and diplexer should be kept as short as possible (preferably not over 1 m).
- Some communication antennas have insufficient height to ensure satisfactory broadcast reception. Only antenna whips with a height of at least 25 cm are acceptable.
- Tuning: The antenna is tuned for best VSWR at the operating frequency as usual. The filter is factory-tuned and ready for installation. The car radio is tuned for optimum reception on the MW-band by means of the antenna tuning screw (if present).

