

## 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.



### ORDERING

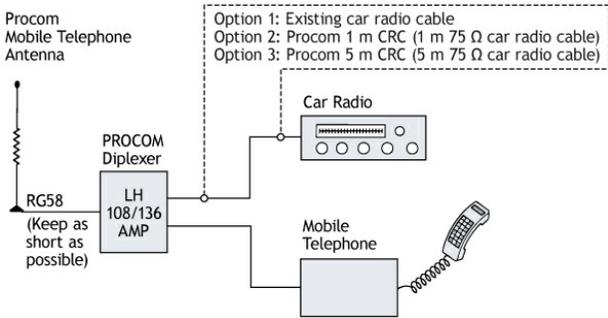
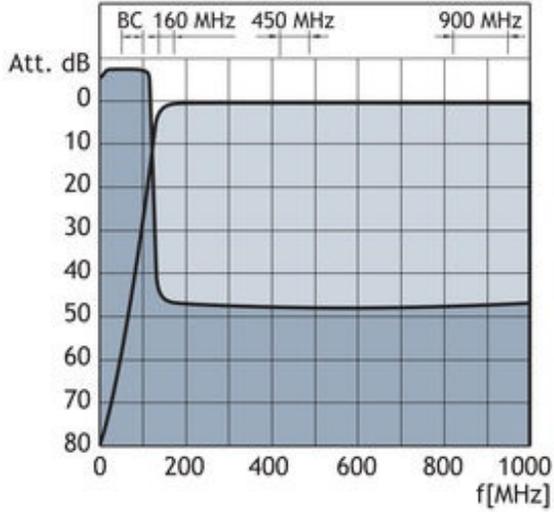
Type	Product No.
LH 108/136 AMP	200000768

### 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, SWR < 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
Weight	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

ADDITIONAL DATA

TYPICAL RESPONSE CURVES



INSTALLATION NOTES

- > 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 SWR 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).

