

Diplexer for Mobile Telephone (66 - 86 MHz) and Car Radio (0 - 15 MHz and (88) - 91 - 108 MHz)

DESCRIPTION

- Diplexer for simultaneous operation of mobile telephone and car radio on a common mobile telephone antenna.
- Extremely small dimensions.
- Quick installation using dual-adhesive pad provided.
- FME-connections on antenna and transceiver terminals
 - CRC (M10 x 0.75) connection on the car radio terminal.
- 1 m or 5 m Procom 75 Ω car radio cable available as an option.



SPECIFICATIONS

Electrical	
Model	LHB 80/88-E
Frequency	Mobile telephone: 66 - 86 MHz Car radio: 0 - 15 MHz and (88) - 91 - 108 MHz
Max. Input Power	35 W
Insertion Loss	0 - 15 and 91 - 108 MHz: < 2.5 dB (88 MHz: < 5.0 dB) 66 - 80 MHz: < 1.5 dB 80 - 86 MHz: < 2.0 dB
Impedance	Transceiver : 50 Ω Car radio : 75 Ω
Isolation	Low to high port: >20 dB @ 86 MHz >20 dB @ 91 - 108 MHz >35 dB @ 66 - 80 MHz

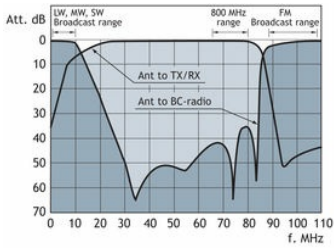
Mechanical	
Connection(s)	TX/RX : FME Car radio: CRC-Connector (M10 x 0.75) Antenna : FME
Dimensions	50 x 21 x 60 mm / 1.97 x 0.83 x 2.36 in.
Weight	Approx. 0.067 kg / 0.15 lb.
Accessories	Car radio cable Type 1 m CRC (length 1 m) Type 5 m CRC (length 5 m)

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

ORDERING

Model	Product No.
LHB 80/88-E	200000787

TYPICAL RESPONSE CURVE



INSTALLATION



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. Antenna whips with loading coils or matching networks may affect broadcast reception.
- 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).

