

Triplexer for TETRA (380-470 MHz), GSM (870-2300 MHz) and Car Radio (0-108 MHz)

DESCRIPTION

- Triplexer for simultaneous operation of TETRA, GSM mobile telephone and car radio on a common mobile telephone antenna.
- Excellent coverage of the two bands 380 – 470 MHz and 870 – 2300 MHz.
- Small dimensions.
- Two mounting options available:
  - Dual-adhesive pad for quick installation.
  - Mounting brackets with ø3.2 mm holes for screw mounting.



ORDERING

Model	Product No.	Description
TRI 70/900/1800/UMTS/FM-SMA	200002134	Dual-adhesive pad
TRI 70/900/1800/UMTS/FM-SMA-M	200002331	Mounting brackets

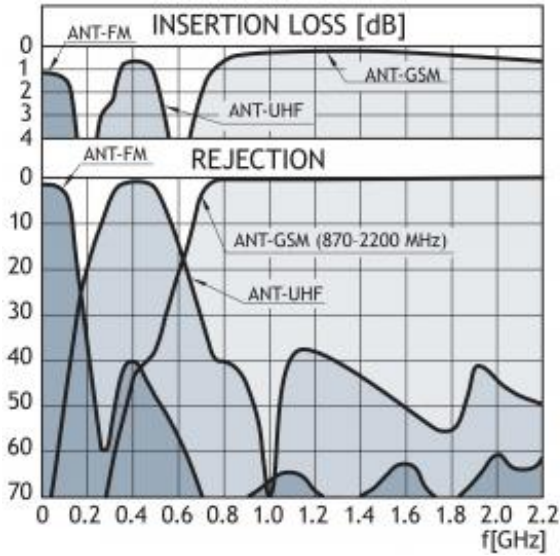
SPECIFICATIONS

Electrical	
Model	TRI 70/900/1800/UMTS/FM-SMA
Frequency	TETRA : 380 - 470 MHz (UHF) Mobile telephone : 870 - 2300 MHz (GSM) Car radio : 0 - 108 MHz (FM)
Max. Input Power	35 W mobile telephone and TETRA
Insertion Loss	0 - 108 MHz : = 2.0 dB 380 - 470 MHz : = 1.0 dB 870 - 2300 MHz : = 0.7 dB
Impedance	Transceiver : 50Ω Car radio : 75Ω
Isolation	UHF to GSM = 40 dB UHF to FM = 35 dB GSM to FM = 40 dB
Mechanical	
Connection(s)	SMA
Dimensions	50 x 21 x 60 mm
Weight	0.068 kg / 0.15 lb
Environmental	
Operating Temperature Range	-30°C to +70°C

ADDITIONAL DATA

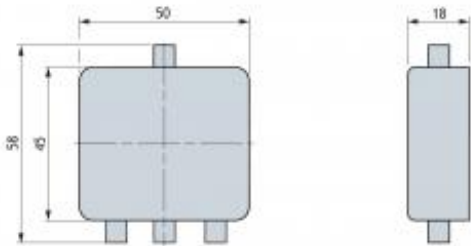
□

TYPICAL RESPONSE CURVES



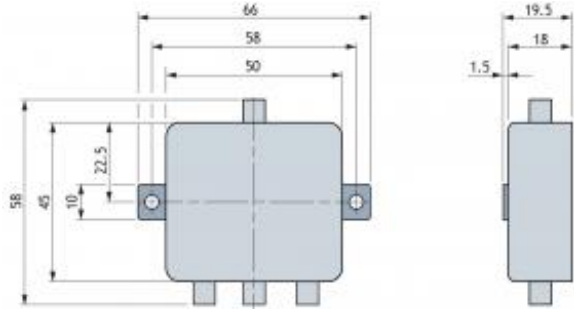
MOUNTING DETAILS

TRI 70/900/1800/UMTS/FM-SMA



MOUNTING DETAILS

TRI 70/900/1800/UMTS/FM-SMA-M



INSTALLATION NOTES

- The 50  $\Omega$  cable between antenna and diplexer should be kept as short as possible (preferably not more than 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.