

AF13 - Co-site filter

Type designation: **AF13**

NSN: **5895160038170**

PN (RN): **2028.100.01**

KČN: **0064241004021**

The AF13 filter decreases mutual interference between two VHF transceivers operating with antennas close to each other, for instance, in one vehicle. The filter is used between the RF13 transceiver and the ZV13.1, ZM13.1 amplifier with a mobile or stationary antenna. The filter allows simplex and half duplex communication between transceivers. If the filter is turned off then signal can pass through bidirectionally without filtering.

Technical parameters

| | |
|--|---|
| Frequency range | 30.00 MHz to 87.975 MHz |
| Maximal transmitter output power | 7 W |
| Nominal impedance | 50 Ω |
| Insertion loss | 3 dB |
| Maximum retuning time | 50 ms |
| Filter selectivity limits maximal noise spectrum density for frequencies with offset from carrier frequency exceeding 10% | 140 dBm/Hz |
| Output and input resistance with AMPHENOL connectors | to short-circuit and disconnection |
| Resistance to electromagnetic field | in acc. with IEC 801-3, level 70 V/ m |
| Resistance to electrostatic discharge | in acc. with IEC 801-2, min. class 3 |
| Nominal power supply voltage | 12 V |
| Power supply voltage range | 9.5 V to 15 V |
| Constant current consumption | max. 60 mA |
| RF signal connection | coaxial cables with BNC connectors |

Power supply and control signal connection

multi-core cable with AMPHENOL connectors

Operating temperature range

-30 °C to +60 °C

Dimensions

W 185 mm x H 83 mm x D 175 mm

Weight

max. 2 kg

Documentation

AF13 operating instructions

2028.010.02

Set

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2028.000.01

Name

Co-site filter set