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

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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

Type designation	PN (RN)	Name
AF13	2028.000.01	Co-site filter set

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