

# Medium Voltage Single Mode Coexistence Filter MV-SCF Series



MV-SCF Series

## Features

- Low insertion loss in the bandpass.
- High level of attenuation in the reject band.
- Small size.
- Competitive price.
- Different connectors (BNC female/male and others) available.
- Degree of protection: IP54.
- Temperature range: -40°C - 85°C.
- RoHS compliant.

## Description

MV (Medium Voltage) Single Mode filters, based in the frequency band allocation of the DS2 Wisconsin technology scheme, implements a single highpass or lowpass filter with an excellent frequency response at competitive price.

When the frequency band to use in the PLC network section is well done, these filters allows the coexistence between different MV PLC modes and also between LV and MV modes when a frequency division repeater is used.

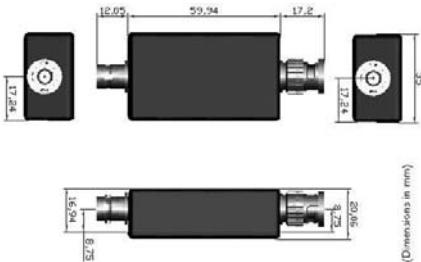
## Electrical characteristics

- Wide bandwidth (1MHz – 40MHz).
- Filter nominal impedance: 50 f.
- Vrms : 3.6 V.
- Irms : 72 mA.

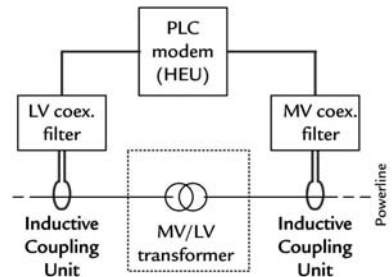
## Frequency bands

Filter	Mode	Bandwidth (MHz)	F min (MHz)	F max (MHz)
WLV3	5	20	14	34
WLV1	7	5	2	7
WMV4	9	20	14	34
WLV2	10	10	2	12
WMV1	11	26.09	7.85	34
WMV2	12	20	7.85	27.85

## Mechanical dimensions

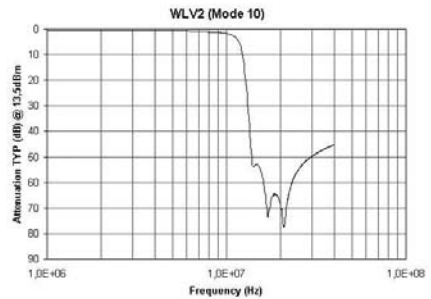
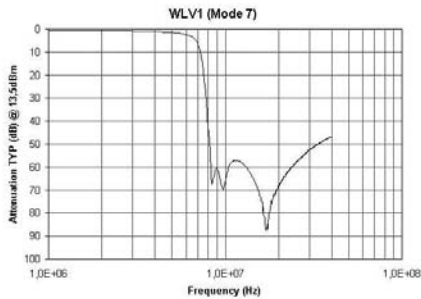
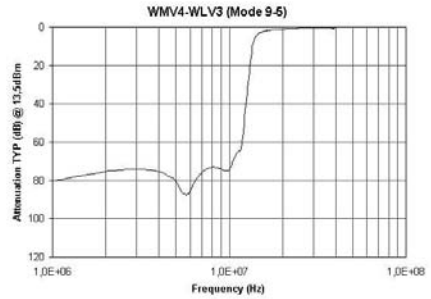
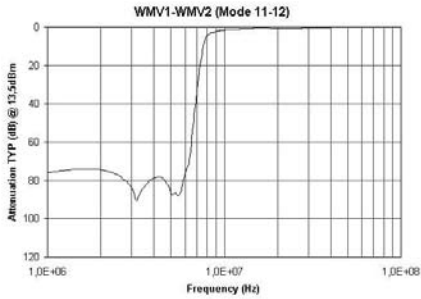


## Installation



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## Highpass and Lowpass filters frequency response



1. Tested on Network Analyzer HP 8753D (test port power: 13.5 dBm).
2. Operating temperature range  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$ .
3. Electrical specification at  $25^{\circ}\text{C}$ .