

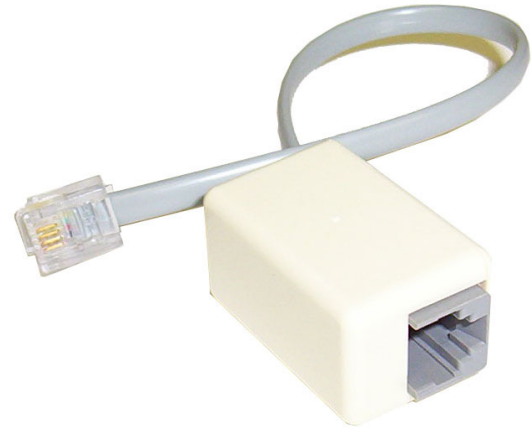
Analog Radio Frequency Interference Filter

M-150

OPTO-TECH™

Features

- Patented design provides radio frequency interference (RFI) attenuation up to -57 dB
- Eliminates RFI including AM, FM, CB and amateur radio from voiceband DC signal
- Passive Device - No ground required
- Tip & Ring balanced to 600 ohm telephone line impedance
- Reversible in-line single pair connection via modular RJ-11 jack and plug
- Compact size, excellent durability, high impact plastic housing
- ANSI T1/E1 conforming RJ-11 jack/plug with 50 microns of gold plating



Description

The M-150 filters are single pair, in-line filters designed to attenuate RFI up to -57 dB on analog lines from 75 kHz to 150 MHz. The filters require no external grounding and are balanced to 600 ohms with an off-hook insertion loss of less than 0.1 dB at 1004 Hz, thus ideal for telephony applications such as with telephones, fax machines and analog PC modems.

The M-150 is a modular device which can be placed at the telephone set, or at the modular connecting block, or any other location that will accept a modular RJ-11 connector.

In certain situations, the RFI demodulated signal power may be so overbearing that multiple filters would need to be installed in series to eliminate the RFI.

NOTE: The M-150 filters are not designed to filter DSL frequencies from POTS frequencies, since these filters will not attenuate a portion of the upstream DSL frequency spectrum; however, certain installation techniques using the M-150 filters can be used to alleviate RFI in DSL applications.

Wilcom P/N	Model	Description
30032298-01	M-150	Installs on phone line
30032298-02	M-150-H	Installs on handset cord

Specifications	
DC Resistance (Tip-to-Ring open)	> 10 Mohms
DC Resistance (Tip-to-Ring shorted)	< 10 ohms
Max. DC Current	150 mA
Capacitance (Tip-to-Ring)	< 0.1 nF
Return Loss	> 40 dB
Longitudinal Balance	> 80 dB
Attenuation Distortion	< 0.2 dB
Attenuation @ 75 kHz	-3 dB
RFI Attenuation	to -57 dB
Dimensions (L x W x H inches)	1.44 x .78 x .88
U.S. Patent No.	6,078,662

Wilcom