

## DSL Filter DT60-1013A

---



### Introduction:

Plain old telephone service (POTS) splitters and microfilters are used on telephone lines to ensure voice and data call quality. This document describes splitters and microfilters and how and when to use them. POTS splitters result in the best data and voice performance when the router and the telephone are used on the same telephone line.

### Features:

- All Delta DSL Microfilters are used to block any noise generated by other phones, fax, answering machines and analog modems are being introduced on the POT line, and pass high frequency signal to DSL Modem.
- Use one Microfilter for each telephone device. If several devices are connected to the same telephone wall jack, use only one Microfilter between the first device and the wall jack.
- Minimize voice band interference transmission, signaling and supervision.
- Our in-line DSL filter design electronically isolates the high-speed DSL data streams from the voice band Plain Ordinary Telephone Service (POTS) This design effectively blocks the DSL and other radio frequencies up to 10 Megahertz.

## DSL Filter DT60-1013A

---

### Description:

Microfilters are installed on telephones to improve voice call quality when voice and data equipment are using the same telephone line (twisted pair). The DT60-1013A series is an in-line filter designed to expedite the service delivery and improve the performance of DSL services. This model filters all telephone sets, facsimile machines, answering machines, etc individually or in groups on line 1 only.

### Applications:

The DT60-1013A series filters are used with other filters distributed throughout the subscribers' premises to isolate all voice band equipment devices such as telephone sets (including cordless types), answering machines, facsimile (fax) machines, 56Kb/s and lower rate modems, automatic dialers, and recorder connectors. The filters may also be used to isolate the telephone network jack connected to a digital cable and/or satellite television set-top box. The DT60-1013A series in-line DSL filter is one of many filters manufactured by Delta Electronic, Inc. for subscriber installed digital services within homes, offices, and hotels.

### DSL Filter DT60-1013A series Specification:

ELECTRICAL CHARACTERISTICS	
ATTENUATION	65dB Min. @800KHz ~ 7.9MHz
PASSBAND FREQUENCY	20Hz ~ 120KHz @100mAdc
O/P IMPEDANCE	150 $\Omega$
I/P IMPEDANCE	150 $\Omega$
INSERTION LOSS	1.5dB Max @20Hz ~ 100KHz
	1.8dB Max @100KHz ~ 120KHz
RETURN LOSS	15dB Min @20KHz ~ 120KHz

[Table 1: Specification List](#)

Rev:01 Year 2001