



78-6089-01 04/16/99

# EZ-DSL Microfilter Specification

---

This specification details the mechanical and electrical characteristics of the easy digital subscriber line (EZ-DSL) Microfilter.

The EZ-DSL Microfilters are used to connect telephones at the customer premise to the premise telephone wiring. The microfilters ensure that transient noise from the premise telephones do not interfere with the proper operation of xDSL modems installed at the customer premise.

## 1. Specifications

This section discusses the following topics:

- Mechanical Specifications
- Electrical Specifications

### 1.1 Mechanical Specifications

There are two versions of the EZ-DSL Microfilter:

- in-line version
- wall-mount version

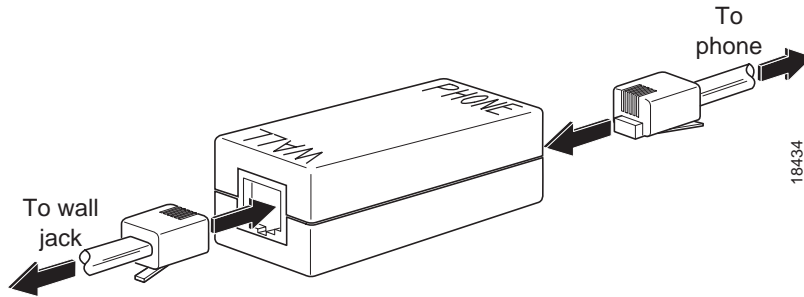
The in-line microfilter is a 2.50" x 1.00" x 1.03" plastic enclosure that houses a printed circuit board (PCB) assembly and an RJ-11 female connector at either end. The top-level assembly includes a 6' RJ-11 to RJ-11 pigtail for connection to the wall outlet.

---

**Corporate Headquarters**  
Cisco Systems, Inc.  
170 West Tasman Drive  
San Jose, CA 95134-1706  
USA

Copyright © 1999  
Cisco Systems, Inc.  
All rights reserved.

**Figure 1 EZ-DSL Microfilter**



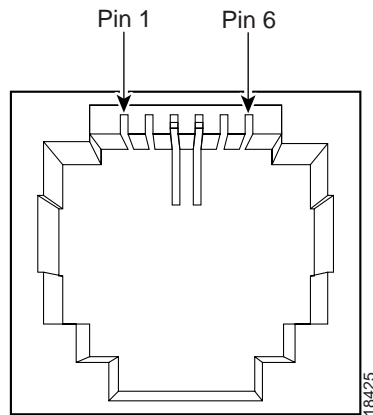
The wall-mount version is a 4.50" x 2.75" plastic plate used in conjunction with wall-mount telephones. The wall-mount microfilter is installed in place of the standard telephone jack outlet where a wall-mount telephone is used.

The RJ-11 connectors use the pinouts listed in Table 1.

**Table 1 RJ-11 Connector Pinouts**

Pin	Signal
3	Ring
4	Tip

**Figure 2 RJ-11 Connector**



## 1.2 Electrical Specifications

The electrical design for the in-line version of the microfilter is the same as the design for the wall-mount version. Following are the electrical characteristic specifications for the EZ-DSL Microfilters.

- Filter topology is 2-pole Low Pass
- DC resistance through T&R to telephone port is 25 ohms maximum
- Loading capacity on telephone port is 33 nF

- Attenuation Distortion, relative to 1kHz, 300 Hz to 3400 Hz is +/- 1dB maximum
- 3dB cutoff point, line to telephone port, 11 kHz +/- 1.5 kHz
- RJ-11 modular jack connection for line and telephone port

## 2. References

Top Assembly, CPE Microfilter, In-line, Single, part number 800-04266-01

Cable, RJ-11 to RJ-11 Pigtail Crossover, part number 72-1666-01

Fabmtl, 6100 Uppr. Plenum 4580-012-01, part number 700-03495-01

ICD, EZ-DSL Coupler, part number 78-5512-01

---

Access Registrar, AccessPath, Any to Any, AtmDirector, CCDA, CCDE, CCDP, CCIE, CCNA, CCNP, CCSI, CD-PAC, the Cisco logo, Cisco Certified Internetwork Expert logo, CiscoLink, the Cisco Management Connection logo, the Cisco NetWorks logo, the Cisco Powered Network logo, Cisco Systems Capital, the Cisco Systems Capital logo, Cisco Systems Networking Academy, the Cisco Technologies logo, ControlStream, Fast Step, FireRunner, GigaStack, IGX, JumpStart, Kernel Proxy, MGX, Natural Network Viewer, NetSonar, Network Registrar, Packet, PIX, Point and Click Internetworking, Policy Builder, Precept, RouteStream, Secure Script, ServiceWay, SlideCast, SMARTnet, StreamView, The Cell, TrafficDirector, TransPath, ViewRunner, VirtualStream, VisionWay, VlanDirector, Workgroup Director, and Workgroup Stack are trademarks; Changing the Way We Work, Live, Play, and Learn, Empowering the Internet Generation, The Internet Economy, and The New Internet Economy are service marks; and Asist, BPX, Catalyst, Cisco, Cisco IOS, the Cisco IOS logo, Cisco Systems, the Cisco Systems logo, the Cisco Systems Cisco Press logo, Enterprise/Solver, EtherChannel, EtherSwitch, FastHub, FastLink, FastPAD, FastSwitch, IOS, IP/TV, IPX, LightStream, LightSwitch, MICA, NetRanger, Registrar, StrataView Plus, Stratm, TeleRouter, and VCO are registered trademarks of Cisco Systems, Inc. in the U.S. and certain other countries. All other trademarks mentioned in this document are the property of their respective owners. (9904R)

Copyright © 1999, Cisco Systems, Inc.  
All rights reserved.

