Electronic Links international inc

SMI POF Surface-Mount Socket with Transceiver

Small Multimedia Interface (SMI) connector system for low-cost high speed data transmission for applications such as home networking.

Overview

Electronic Links Small Multimedia Interface (SMI) surface-mount connector system enables an IEEE 802.3u Fast Ethernet or IEEE 1394 communication link over Plastic Optical Fiber (POF) for high-speed home, office, and industrial networks.

The form factor is compliant with the International Electrotechnical Commission standard (IEC 61754-21).

In addition to the surface-mount configuration, these connector systems are available with a through-hole system, and can be customized for other mounting options. The surface-mount configuration minimizes the amount of PCB space used by eliminating the PCB vias.

Electronic Links SMI connector systems use duplex POF cable assemblies of up to 100 meters that also are provided by Electronic Links.The integrated RCLED-based light sources from Firecomms (www.firecomms.com) support Fast Ethernet and IEEE 1394 S200.

Specifications

Data Rate:	Up to 250 Mbps
Distance:	100 meters
Insertion Loss:	3.0 db
Durability:	500 cycles
Mating Force:	3.0 kgf
Unmating Force:	.5 to 3.0 kgf

Features

- Compatible with IEEE 802.3u Fast Ethernet and IEEE 1394 S200 communications standard
- Optimized for use in consumer electronics, home networking, industrial, and medical applications
- Fully integrated Firecomms RCLED transceiver for seamless digital-to-optical/optica-to-digital conversion
- Logic interface compatible with both LVDS (Low-Voltage Differential Signaling) and CML (Current-Mode Logic)
- RoHS compliant
- Multiple color options
- No electromagnetic interference (EMI)

Drawings

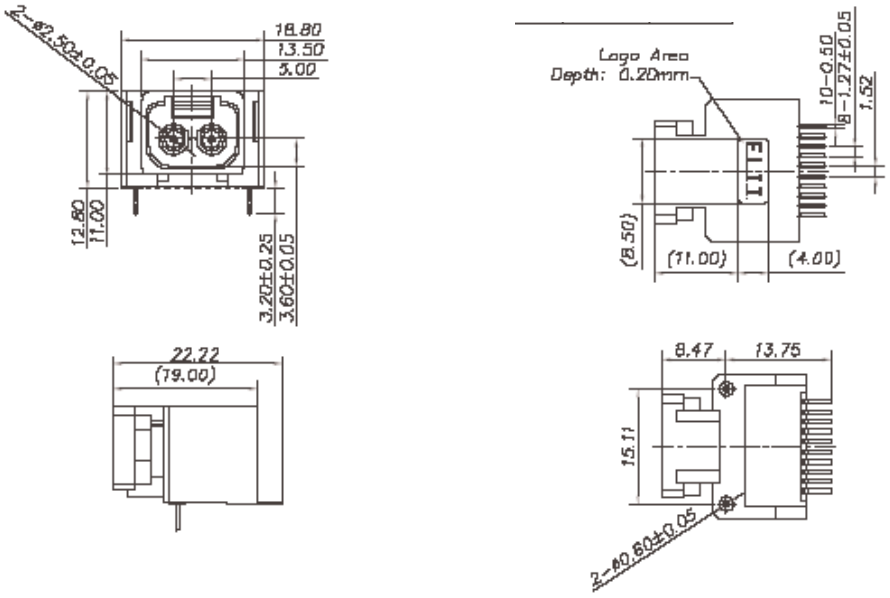

Figure 1. Dimensions of the SMI connector.

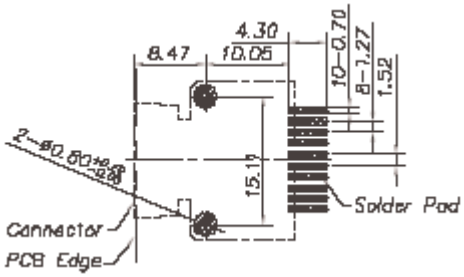

Figure 2. Component side view of PCB layout.

Ordering Information

Part Number	Description
ELII-SMI-S-Y-1	SMI POF Surface-Mount Socket with Fast Ethernet Transceiver
ELII-SMI-S-Y-2	SMI POF Surface-Mount Socket with IEEE 1394b Transceiver

Note: For y, indicate color (B=Black, G=Gray, Z=Brown).

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