The ETH1-230L is developed for high power PoE applications in support of the goals of the IEEE 802.3 “at” working group. This module is designed for 2-pair cabling plants at 30 Watts and two modules may be used for 4-pair cabling in 60 Watt applications. It exceeds the return loss requirements of Gbit Ethernet.

It has a minimum open-circuit inductance of 350 µH at an offset current of 35 mA at 25°C ambient temperature, and can handle 22.5 mA minimum dc offset at 85°C. Typical temperature rise from 25°C ambient is 7°C with 800 mA and 10°C with 1000 mA dc current applied. Winding to winding isolation is 1500 Vrms. Ambient temperature range: –40°C to +85°C with 1 A current.

Request free evaluation samples by contacting Coilcraft or visiting www.coilcraft.com.

Note: Pins 7, 8, 15 and 16 must not be connected to the circuit.

1. When ordering, please specify packaging code:

Packaging:  
D = 13” machine-ready reel. EIA-481 embossed plastic tape. Factory order only, not stocked (400 parts per full reel).  
B = Less than full reel. In tape, but not machine ready.  
To have a leader and trailer added ($25 charge), use code letter D instead.

Weight: 3.0 g  
Tape and reel: 400/13” reel 32 mm tape

Specifications subject to change without notice.  
Please check our website for latest information.

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Common Mode Rejection (dB) vs Frequency (MHz)

802.3af specification:
- 50 dB min from 1 MHz to 10 MHz
- 30 dB min from 10 MHz to 125 MHz
- 20 dB min from 125 MHz to 500 MHz

Differential to Common Mode Rejection (dB) vs Frequency (MHz)

802.3af specification:
- 45 dB min at 30 MHz
- 40 dB min at 60 MHz
- 35 dB min at 100 MHz

Insertion Loss (dB) vs Frequency (MHz)

802.3af specification:
- 1.0 min dB from 0.1 MHz to 100 MHz
- 1.2 min dB at 125 MHz

Crosstalk (dB) vs Frequency (MHz)

802.3af specification:
- 45 dB min at 30 MHz
- 40 dB min at 60 MHz
- 33 dB min at 100 MHz