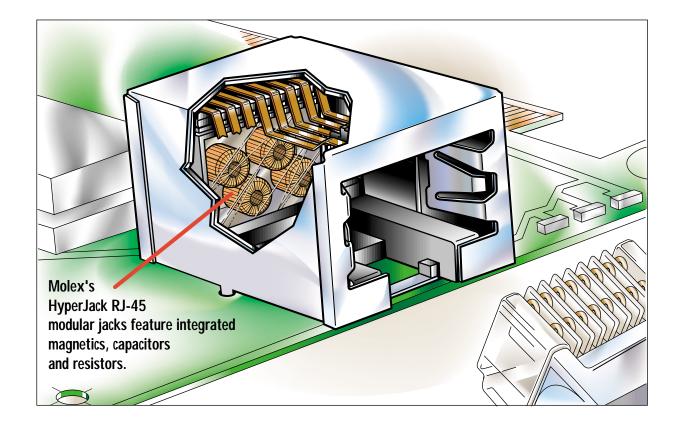
FEATURES AND SPECIFICATIONS



Features and Benefits

- Trade name for Molex, RJ-45 Jack that includes wire wound components (magnetics)
- Used for local area networks (LANs) or wide area networks (WANs) with Ethernet 10 Base T or 100 Base T characteristics
- Transformers are used in every port to enable series signal An overmolded installation box in the jack is used to isolation of the transmission lines
- Common mode chokes are incorporated in the same transformer core to achieve a better signal-to-noise ratio
- Magnetics are used for common mode noise rejection, DC insulation of cable side versus the board side and possible transforming of LH signal
- Resistors and/or cpacitors are incorporated to terminate noise from the non used pair
- mount, solder, pot magnetics, resistors, and capacitors during high volume production



FEATURES AND SPECIFICATIONS

Features and Benefits

- Integrated magnetics, capacitors and resistors for space savings and reduced components on the motherboard
- Eases logistics
- Flexible magnetic design adapts to physical specifications from any vendor
- EMI/RFI protection includes common mode chokes
- Full magnetic performance suitable for UTP and STP applications
- Symmetrical RX/TX design can be used on PCB or hub side

Reference Information

Product Specification: PS-85533-017

Packaging: Tray Mates with: FCC 68 Plugs Designed in: Millimeters

Electrical

Voltage: 125V Current: 1.5A

Contact Resistance: $20m\Omega$ max. Dielectric Withstanding Voltage: 1500V Insulation Resistance: 500 M Ω min. OCL (TX, RX): 400µH min.

Electrical (continued)

Insertion Loss (TX, RX): 0.1 to 100 MHz -1dB max.

Return Loss (TX, RX):

0.5 to 30 MHz -18 dB min. 40 MHz -15.5 dB min. 50 MHz -13.6 dB min. 60 to 80 MHz -12 dB min. Common Mode Rejection (TX, RX): 1 to 30 MHz -50 dB min. 60 MHz -37 dB min. 100 MHz -28 dB min.

Crosstalk TX-RX (NEXT):

1 to 30 MHz -42 dB min. 60 MHz -38 dB min. 100 MHz -35 dB min. Isolation (Hi-Pot): 1500V AC or 2250V DC

Physical

Housing: Black polyester, UL 94V-0 Contact: Phosphor Bronze

Plating: Contact Area—Post plate 1.27 to 1.52µm

(50 to 60µ") Gold

Solder Tail Area—1.90μm (75μ") min. Tin/Lead

Underplating—Nickel Operating Temperature: -40 to +80°C

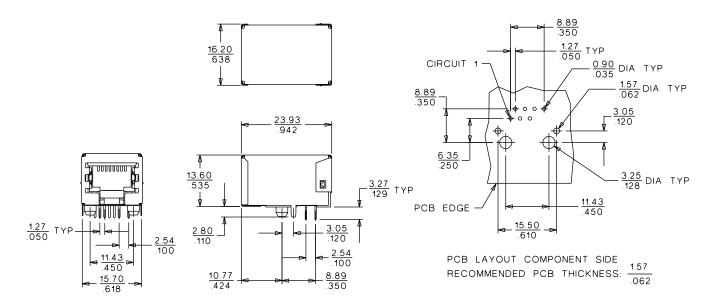
Modular Jack HyperJack™

85533

Right Angle Shielded



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION

Circuits	Loaded Contacts	Order No.
8	8	85533-0002

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