MagJack® ICM

10GBASE-T 100W PoE

Single Port MagJack® ICMs

TRP Connector's single port 10GBASE-T 100W Power over Ethernet MagJack® ICMs are designed for customers looking to upgrade their product performance for maximum speed at 100W of power over standard Ethernet cable. These 100W PoE ICMs can transmit or receive 0 to 100W of power per port over all 4 pairs within the Ethernet cable while maintaining the bandwidth of the NBASE-T compliant 10Gigabit Ethernet signals.

Customers can implement 100W PoE to double the amount of power their product can handle over any existing application while also increasing their speed 10 times over standard Gigabit Ethernet. They can be used as either a PSE (Power Source Equipment) or a PD (Powered Device), are backward compatible to existing Ethernet networks and use industry standard footprints and pin-outs. The 100W PoE MagJack ICMs are ideal in supporting the high-power requirements of network devices, 5G cellular equipment, base stations, high power sourcing applications and devices, and applications in the Internet of Things.

Features & Benefits

- 100W PoE
- 10GBASE-T capable design
- Compatible with all known 10GBASE-T current-mode and voltage-mode PHYs on the market today
- Can be used on next general PoE products where 60W of power is not enough

Applications

- 5G cellular equipment and base stations
- High power sourcing applications like low density 10GBASE-T Ethernet switches requiring up to 100W of power
- High powered devices like Ethernet cameras that require more than 60W of power
- NBASE-T compliant products
- Management devices
- LED lighting
- Higher bandwidth wireless access points
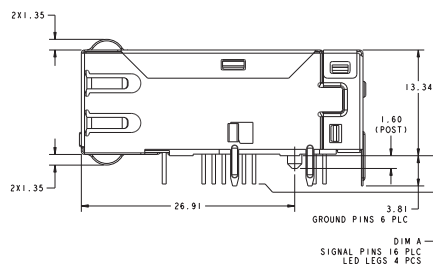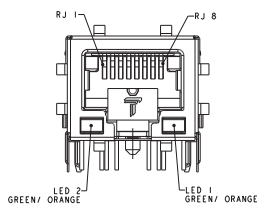
trp CONNECTOR
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Specifications

- Meets all IEEE 802.3 10/100BASE-T thru 10GBASE-T electrical requirements including RL, IL, Hi-Pot and Common Mode parameters
- Can carry 1A of current at maximum of 57 VDC continuous
- Operates from -40°C to 85°C
- 100% Hi-Pot tested in production
- Comes with many different LED color combinations and options
- UL recognized
- 50 micro-inches of gold-plated contacts as required by the TIA 1096/FCC 47, Part 68
- RJ45 plug-tab up for ease of use
- Lead-free wave-solder compatible
- EMI-spring tabs on the shield for enhanced EMI and ESD performance
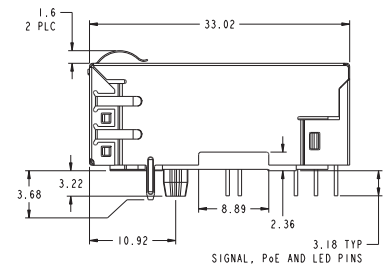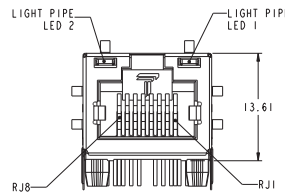- RoHS 6/6 compliant

Part Numbers

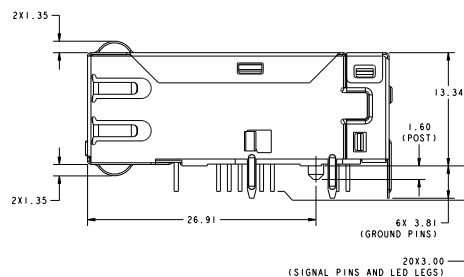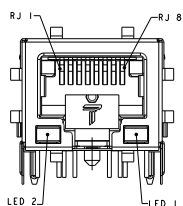| Bel Part Number	Speed	LEDs	Port Orientation	PoE Rating	Operating Temperature
2250379-1	10GBASE-T	Yes	Tab Down	4PPoE 100W	-40°C to 85°C
2250508-1	10GBASE-T	Yes	Tap Up	4PPoE 100W	-40°C to 85°C
2250629-1	10GBASE-T	Yes	Tab Down	4PPoE 120W	-40°C to 85°C

Part Drawings

2250379-1

2250508-1

2250629-1

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