

10/100 Base LAN Pulse Transformer CLP0612



Features

- Pulse transformer and filter module for 10/100Base-T LAN (IEEE802.3), suitable for automotive application
- Excellent signal transmission performance
- High Withstand voltage
- Operating temperature: $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$
- AEC-Q200 / RoHS compliant

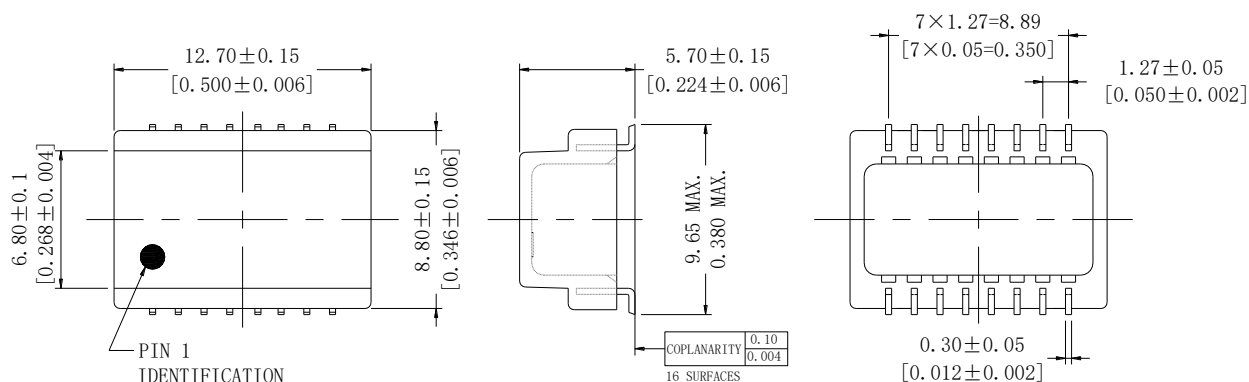


Application

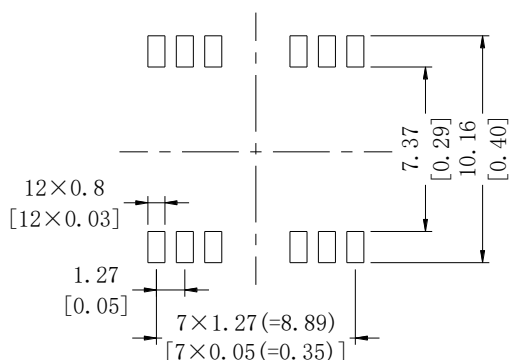
- Battery Management System, ADAS, infotainment system, Gateway, Fault diagnosis
- PLCs, industrial switches, surveillance systems, and IoT gateways for factory automation
- Home network and entertainment equipment requiring Ethernet connectivity

Dimension (mm) [inch]

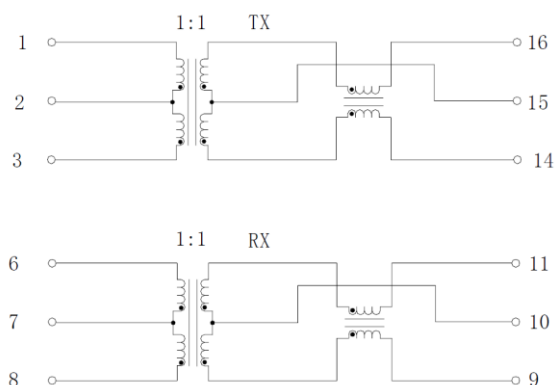
- Size (L x W x H): 9.65mm x 12.85mm x 5.85mm Max



Recommended Land pattern (mm) [inch]



Schematics



Note : This specification is subject to change without notice. Please contact your nearest sales office for updated information when placing an order.

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Electrical Characteristics (Part No.: C23102NP-R)

Test item	Specification	Conditions
Turns ratio (1-3)/(16-14)=(6-8)/(11-9)	1.0±3%	50kHz, 500mV
Inductance (1-3)=(6-8)	350μH Min.	100kHz, 100mV, 8mA DC
Insertion loss (TX & RX)	-1.1dB Min.	0.1MHz~100MHz
Return loss (TX & RX)	-20dB Max.	30MHz
	-14dB Max.	60MHz
	-12dB Max.	80MHz
Differential to common mode rejection	-42dB Max.	30MHz
	-37dB Max.	50MHz
	-33dB Max.	100MHz
Cross talk	-45dB Max.	30MHz
	-40dB Max.	60MHz
	-35dB Max.	100MHz
Hi-pot	1,500Vrms Typ.	0.5mA, 1Min.

~ IC Reference information ~

TEXAS INSTRUMENTS

- DP83822 / Robust, low power 10/100 Mbps Ethernet physical layer transceiver

ALALOG DEVICES

- LTC6811-1 / LTC6811-2, 12-Cell battery stack monitors (Part No: CLP0612-C20115)
- LTC6806, 36 Channel Fuel Cell Monitor (Part No: CLP0612-C20115)
- LTC6804-1/LTC6804-2: Multicell Battery Monitors (Part No: CLP0612-C20115)
- ADBMS1818: 18-Cell Battery Monitor with Daisy Chain Interface (Part No: CLP0612-C20115)
- LTC6810-1/LTC6810-2: 6 Channel Battery Stack Monitors (Part No: CLP0612-C20115)
- LTC6812-1: 15-Cell Battery Stack Monitor with Daisy Chain Interface (Part No: CLP0612-C20115)
- LTC6813: 18-Cell Battery Stack Monitor with Daisy Chain Interface (Part No: CLP0612-C20115)
- LTC2949: Current, Voltage, and Charge Monitor for High Voltage Battery Packs (Part No: CLP0612-C20115)



For sales office information, please [click here](#) to visit our website.

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