

## Single 10/100 BASE-TX Filtered Connector Integrated LED (PoE) MODEL NO. : RJPLB-203TC1

### Features:

- ⊙ RoHS Compliant
- ⊙ Do not use material and use that the prohibition that SS-00259 stipulates
- ⊙ Fully shielded magnetics protect data from internally generated digital noise
- ⊙ Reduces the overall length of the signal path for improved common mode performance
- ⊙ Implements full common mode termination scheme with used and unused twisted pairs
- ⊙ Meets IEEE802.3af Baseline Wander Compensation specification
- ⊙ Integrates high voltage capacitor to chassis ground
- ⊙ Supports all major transceivers with matched turns ration and complete integration of specified termination
- ⊙ Design for 100base-tx transmission over UTP-5 cable
- ⊙ Operating TEMP. range:-40°C to +85°C
- ⊙ Storage TEMP. range:-55°C to +125°C
- ⊙ Primary OCL inductance: 350μH MIN. at 100KHz/0.1Vrms 8mA DC bias
- ⊙ Shield (P7) <-> Data signals (P1-4-2,P3-5-6) , Shield(P7) <-> PoE Signals(J1-2,J3-6,J4-5,J7-8,P9-10) , PoE Signals (J1-2,J3-6,J4-5,J7-8,P9-10) <-> Data signals (P1-4-2,P3-5-6) to Isolation Voltage.

### Typical Performance Characteristics@ 25°C

Insertion Loss (dB MAX)	Return Loss (dB Min @100±15Ω)				Differential to Common Mode Rejection (dB MIN)	Cross talk (dB MIN)					CMRR (dB MIN)	Isolation Voltage (Vrms min)
	MHz	MHz	MHz	MHz		MHz	MHz	MHz	MHz	MHz		
1~100	1~30	40	50	60~80	1~100	20	40	60	80	100	1~100	1500
-1.0	-16	-14	-12	-10	-33	-47	-40	-37	-35	-33	-30	

### Schematic: Design on MDI Interface Circuitry

