PCA ELECTRONICS INC.

10/100Base-TX Interface Module for NIC/HUB Applications

EPF8119S & EPF8119S-RC



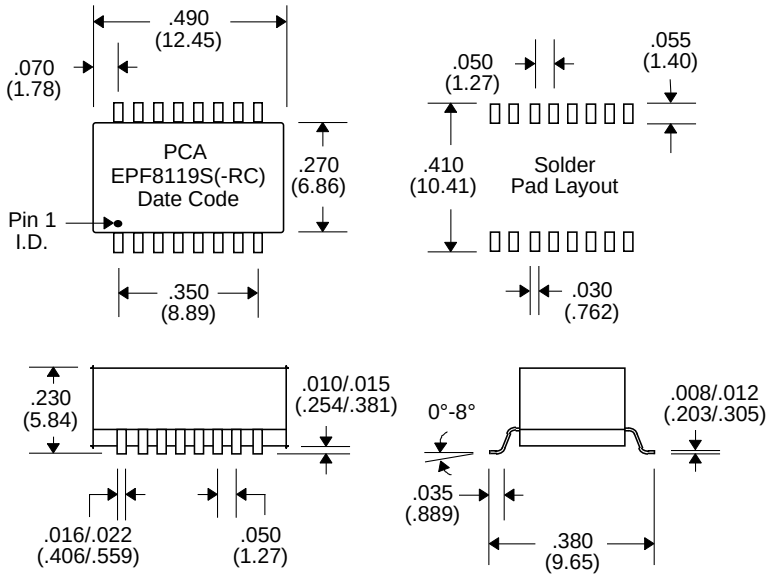
- Robust construction allows for toughest soldering processes
- Guaranteed to operate with 8 mA DC bias at 70°C on Cable Side
- Complies with or exceeds IEEE 802.3, 10/100Base-TX Standards
- Add “-RC” after part number for RoHS Compliant
- Operating Temperature : 0°C to +70°C
- Wire Insulation Class : MW 80C
- 1500 Vrms Isolation

Electrical Parameters @ 25° C

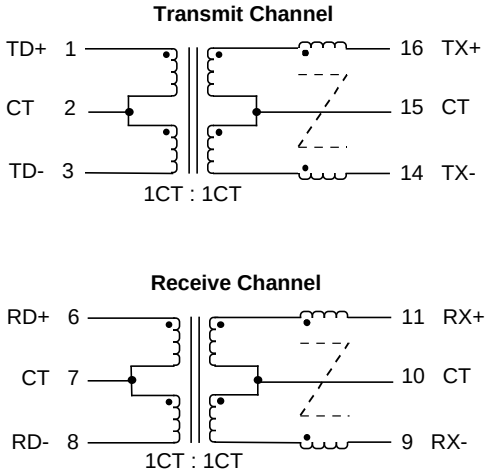
OCL	**Insertion Loss** (dB Max.)		**Return Loss** (dB Min.)			**Common Mode Rejection** (dB Min.)			**Crosstalk** (dB Min.) Between Channels	
100 KHz, 0.1 Vrms 8 mA DC Bias	1-80 MHz	@ 100 MHz	1-30 MHz	30-60 MHz	60-100 MHz	1-30 MHz	30-100 MHz	100-500 MHz	1-10 MHz	10-100 MHz
Cable Side	Xmit/Rcv	Xmit/Rcv	Xmit/Rcv	Xmit/Rcv	Xmit/Rcv	Xmit/Rcv	Xmit/Rcv	Xmit/Rcv		
350 µH	-1/-1	-1.5/-1.5	-18/-18	-12/-12	-10/-10	-40/-40	-30/-30	-10/-10	-40	-35

• **Impedance** : 100 Ω Xmit / 100 Ω Rcv • **Rise Time** : 3.0 nS Max. •

Package



Schematic



Notes :	**EPF8119S**	**EPF8119S-RC**
1. Lead Finish	SnPb	Hot Tin Dip (Sn) †
2. Peak Temperature Rating	225°C	245°C
3. Moisture Sensitive Levels	MSL = 3 (168 Hours, ≤30°C/60%RH)	MSL = 4 (72 Hours, ≤30°C/60%RH)
4. Weight	1 gram	1 gram
5. Packaging Information (Tube)	40 pieces/tube	40 pieces/tube
(Tape & Reel)	650 pieces/13” reel	650 pieces/13” reel

† Lead Material : Ni Barrier over Cu

Unless Otherwise Specified Dimensions are in Inches /mm ± .010 /.25

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Product performance is limited to specified parameters. Data is subject to change without prior notice.

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