

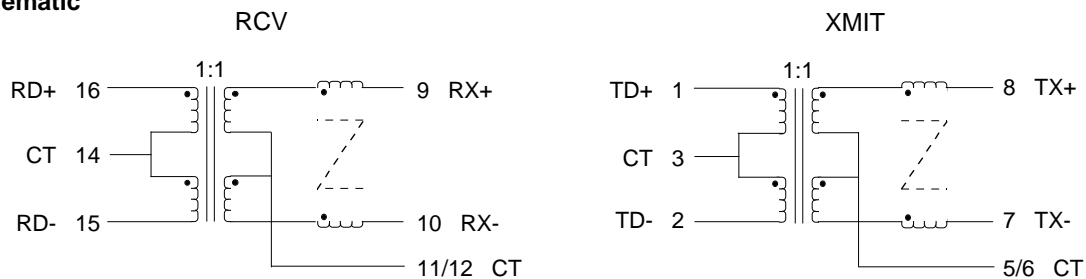
# High Speed LAN Interface Module

- Features**
- Complies with or exceeds IEEE 802.3, 10BT/100BX requirements
  - Fully functional with 8 mA DC Bias.
  - Developed under ISO 9000 provisions
  - Construction withstands IR/VP processes

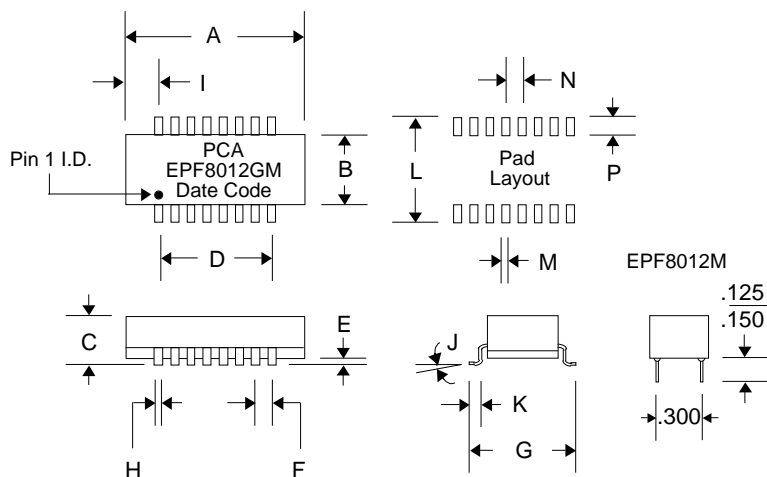
| PCA Part Number(s)               |               | EPF8012M & EPF8012GM              |         |         |         |
|----------------------------------|---------------|-----------------------------------|---------|---------|---------|
| Electrical Specifications @ 25°C |               |                                   |         |         |         |
| Parameter                        | Frequency     | Specification                     | XMIT    | RCV     | Unit    |
| Insertion Loss                   | 1-100 MHz     | Under Matched Condition           | -1.0    | -1.0    | dB Max. |
| Isolation                        |               | 1500 (for 1 minute)               |         |         | Vrms    |
| Return Loss                      | 5-10 MHz      | (See Note 1)                      | -20     | -20     | dB Min. |
| Return Loss                      | 10-100 MHz    | (See Note 1)                      | -10     | -10     | dB Min. |
| Common Mode Rejection            | 30-100 MHz    |                                   | -30     | -30     | dB Min. |
| Crosstalk                        | 1-100 MHz     | Between Channels                  | -40     | -40     | dB Min. |
| OCL (Specified DC Bias)          | 100 KHz, 0.1V | Across 1-2 and 15-16 (See Note 2) | 350     | 350     | μH Min. |
| Impedance Ratio                  |               |                                   | 100:100 | 100:100 |         |

**Notes :** 1. @ pins 8-7 ; pins 1-2 terminated with 100 .  
 @ pins 9-10 ; pins 16-15 terminated with 100 .  
 2. 8 mA DC Bias

## Schematic



## Package



## Dimensions

| (In Inches) |      |      |      |
|-------------|------|------|------|
| Dim.        | Min. | Max. | Nom. |
| A           | .970 | .990 |      |
| B           | .380 | .400 |      |
| C           | .223 | .243 |      |
| D           | .700 | Typ. |      |
| E           | .003 | .020 |      |
| F           | .100 | Typ. |      |
| G           | .500 | .520 |      |
| H           | .015 | .021 |      |
| I           | .090 | Typ. |      |
| J           | 0°   | 8°   |      |
| K           | .025 | .045 |      |
| L           |      |      | .560 |
| M           |      |      | .030 |
| N           |      |      | .100 |
| P           |      |      | .092 |