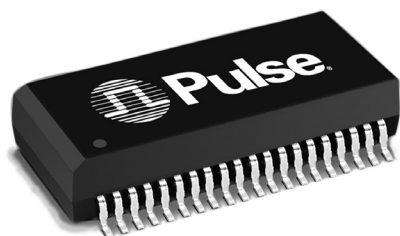
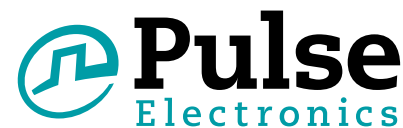


# 10/100BASE-TX TRANSFORMER MODULES

Military/Aerospace Grade



- Compliant with IEEE802.3u & X3.263 Standards
- 350uH OCL with 8mA DC
- IC grade transfer-molded package withstands 235°C peak temperature profile
- Operating and Storing Temperature:  
100B-4009 : -40°C to +85°C  
100B-4009X: -55°C to +125°C

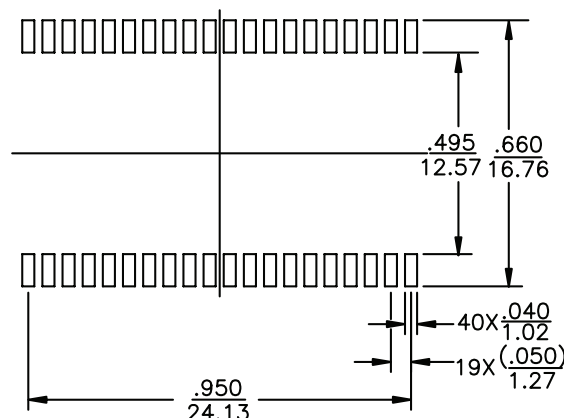
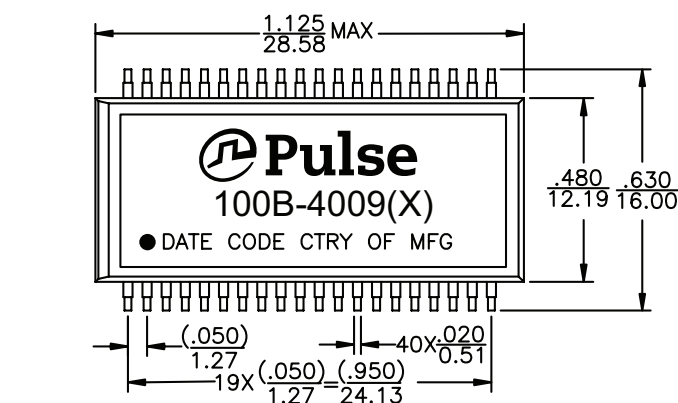
## Electrical Specification @ 25°C, Operating Temperature: -40°C~+85°C

| Part Number | Insertion Loss<br>(dB MAX) | Return Loss<br>(dB MIN) |       |       |          | Crosstalk<br>(dB MIN) |       |       |        | Differential to Common Mode<br>Rejection<br>(dB MIN) |           | HI-POT<br>(Vrms MIN) |
|-------------|----------------------------|-------------------------|-------|-------|----------|-----------------------|-------|-------|--------|------------------------------------------------------|-----------|----------------------|
|             | 0.1-100MHz                 | 2-30MHz                 | 40MHz | 50MHz | 60-80MHz | 1MHz                  | 30MHz | 60MHz | 100MHz | 1-60MHz                                              | 60-200MHz |                      |
| 100B-4009   | -1.4                       | -18                     | -14.4 | -13.1 | -12      | -50                   | -42   | -37   | -32    | -37                                                  | -25       | 1500                 |
| 100B-4009X* | -1.4                       | -18                     | -14.4 | -13.1 | -12      | -50                   | -42   | -37   | -32    | -37                                                  | -25       | 1500                 |

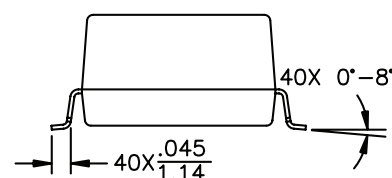
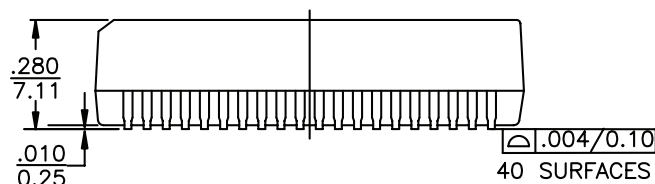
Note: Add suffix NL for RoHS compliant part i.e. 100B-4009XNL

## Mechanical

### 100B-4009 & 100B-4009X



SUGGESTED PAD LAYOUT

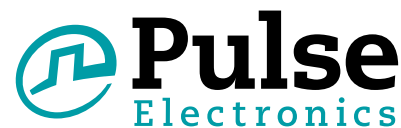


Weight ..... 4.80 grams  
 Tape and Reel ..... .250/reel  
 Tube ..... 15/tube

Dimensions: Inches  
 mm  
 Unless otherwise specified, all tolerances are  $\pm .010$   
 0.25

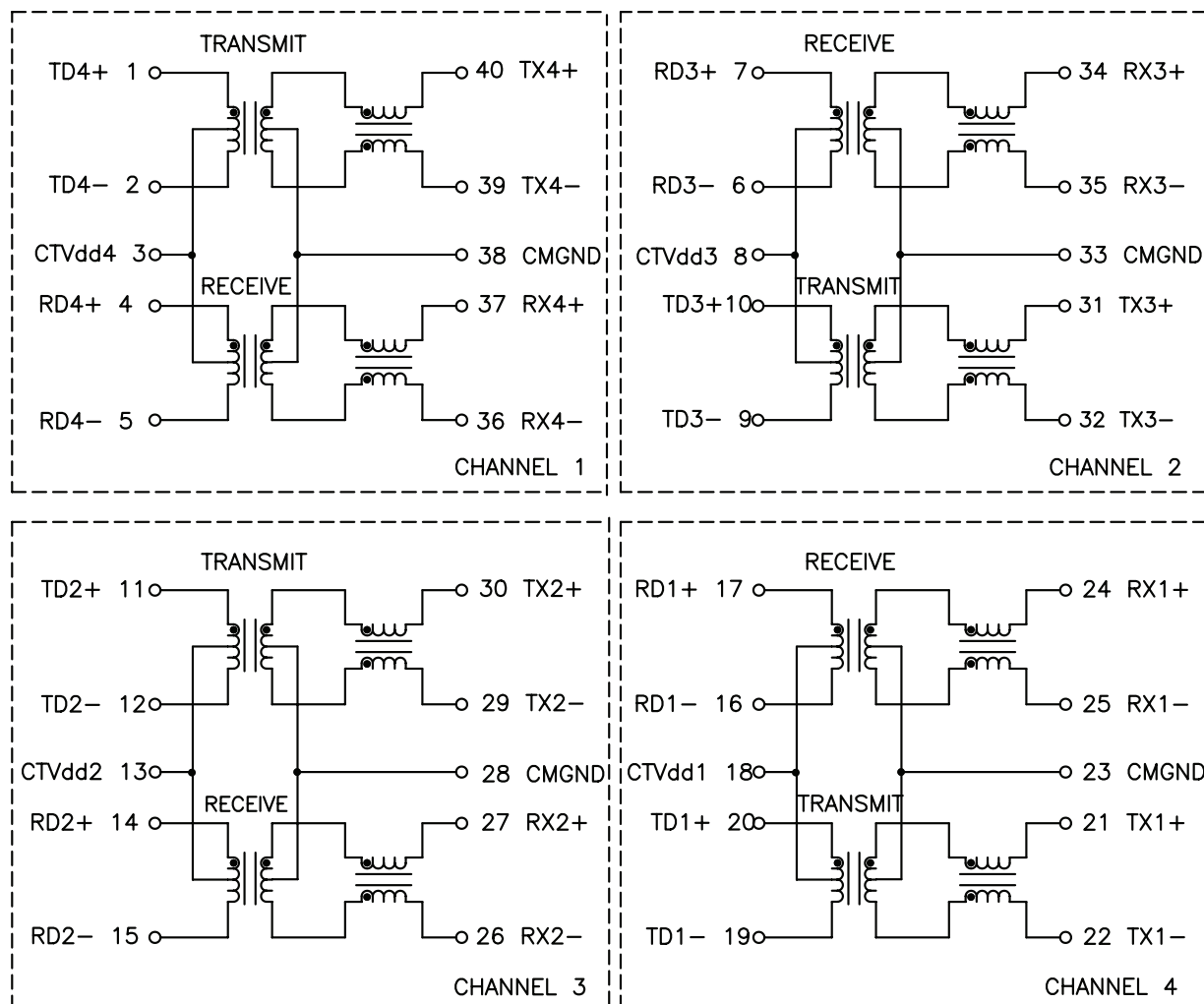
# 10/100BASE-TX TRANSFORMER MODULES

Military/Aerospace Grade



## Schematic

### 100B-4009 & 100B-4009X



## For More Information

### Pulse North America Headquarters

Two Pearl Buck Court  
Bristol, PA 19007  
U.S.A.

Tel: 215 781 6400  
Fax: 215 781 6403

### Pulse Europe

Einsteinstrasse 1  
D-71083 Herrenberg  
Germany

Tel: 49 7032 7806 0  
Fax: 49 7032 7806 135

### Pulse China Headquarters

B402, Shenzhen Academy of  
Aerospace Technology Bldg.  
10th Kejinan Road  
High-Tech Zone  
Nanshan District  
Shenzhen, PR China 518057  
Tel: 86 755 33966678  
Fax: 86 755 33966700

### Pulse North China

Room 2704/2705  
Super Ocean Finance Ctr.  
2067 Yan An Road West  
Shanghai 200336  
China

Tel: 86 21 62787060  
Fax: 86 2162786973

### Pulse South Asia

135 Joo Seng Road  
#03-02  
PM Industrial Bldg.  
Singapore 368363

Tel: 65 6287 8998  
Fax: 65 6287 8998

### Pulse North Asia

3F, No. 198  
Zhongyuan Road  
Zhongli City  
Taoyuan County 320  
Taiwan R. O. C.  
Tel: 886 3 4356768  
Fax: 886 3 4356823 (Pulse)  
Fax: 886 3 4356820 (FRE)

Performance warranty of products offered on this data sheet is limited to the parameters specified. Data is subject to change without notice. Other brand and product names mentioned herein may be trademarks or registered trademarks of their respective owners. © Copyright, 2012. Pulse Electronics, Inc. All rights reserved.