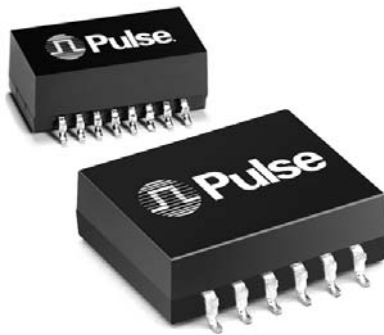


# 10/100BASE-TX SINGLE-PORT TRANSFORMER MODULES

Military / Aerospace Grade



- Compliant with IEEE 802.3u & ANSI X3.263 standards
- 350 $\mu$ H OCL with 8mA bias
- Operating and storage temperature:  
**100B-1001 & 100B-1003: -40°C to +85°C**  
**100B-1001X & 100B-1003X: -55°C to +125°C**
- IC grade transfer-molded package withstands 235°C peak temperature profile

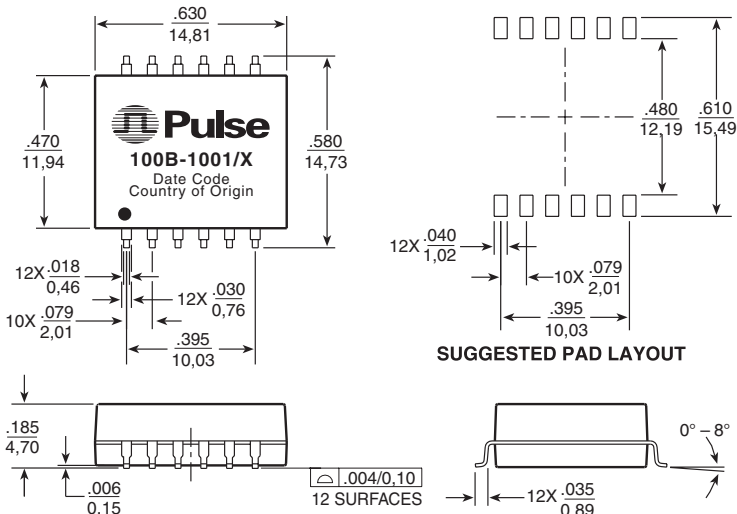
## Electrical Specifications @ 25°C

Part Number	Insertion Loss (dB MIN)	Return Loss (dB MAX)				Crosstalk (dB MAX)				DM to CM Rejection Ratio (dB MAX)		
	0.1-100 MHz	2-30 MHz	50 MHz	60 MHz	80 MHz	16 MHz	30 MHz	60 MHz	80 MHz	0.1-30 MHz	30-60 MHz	60-100 MHz
100B-1001	-1.00	-18	-14	-12	-12	-48	-44	-40	-38	TX: -50 RX: -50	TX: -40 RX: -40	TX: -30 RX: -30
100B-1001X	-1.10	-18	-14	-12	-10	-48	-44	-40	-38	TX: -45 RX: -45	TX: -40 RX: -40	TX: -38 RX: -33
100B-1003	-1.00	-20	-14	-14	-12	-48	-45	-40	-38	TX: -50 RX: -50	TX: -40 RX: -40	TX: -35 RX: -35
100B-1003X	-1.00	-20	-14	-14	-12	-48	-45	-40	-38	TX: -45 RX: -35	TX: -40 RX: -35	TX: -35 RX: -35

## Mechanical

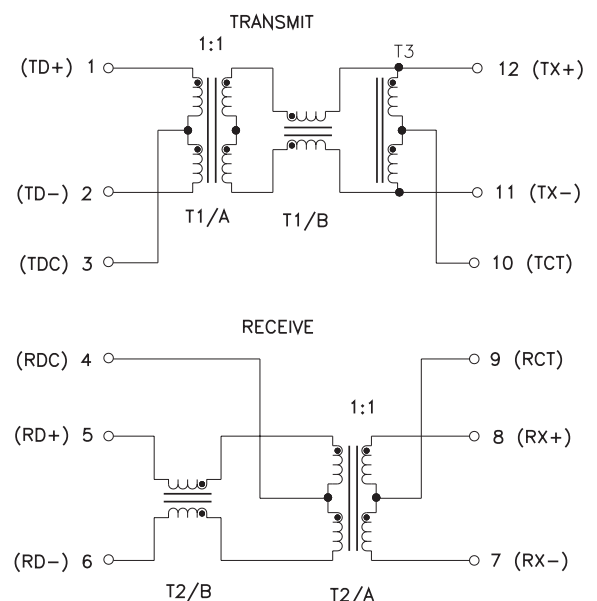
## Schematic

### 100B-1001/X



Weight .....1.7 grams  
Tape and Reel .....350/reel  
Tray .....30/tray

Dimensions: Inches  
mm  
Unless otherwise specified, all tolerances are  $\pm .010$   
0,25



# 10/100BASE-TX SINGLE-PORT TRANSFORMER MODULES

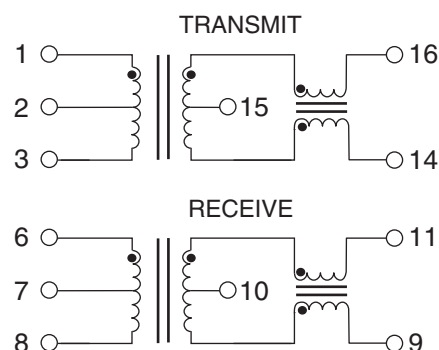
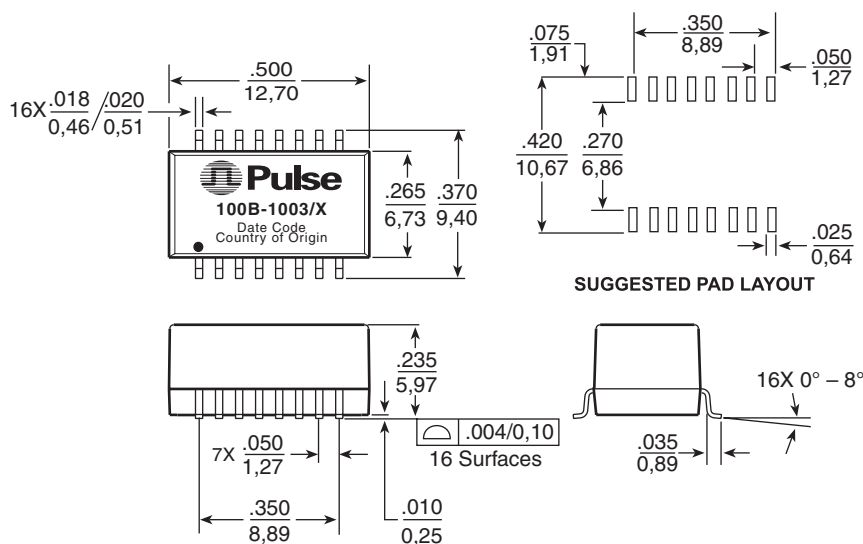
## Military / Aerospace Grade



### Mechanical

### Schematic

#### 100B-1003/X



Weight ..... 1.16 grams  
Tape and Reel ..... .600/reel

Dimensions:  $\frac{\text{Inches}}{\text{mm}}$   
Unless otherwise specified, all tolerances are  $\pm \frac{.010}{0,25}$

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