# TRANSFORMERS FOR ECHELON<sup>®</sup> NEURON<sup>®</sup> ICs Developed for Use with 3120<sup>™</sup> & 3150<sup>™</sup> Chips Produced by Motorola and Toshiba





For 1.25 Mbps twisted pair applications Provides 1500 Vrms isolation for 1 minute -40°C to 85°C operating temperature range

Electrical Specifications @ 25°C — Operating Temperature - 40°C to 85°C							
Part Number	Turns Ratio <sup>1</sup> ±2%	Primary Inductance (mH)	DCR Primary (Ω) MAX	DCR Secondary (Ω) MAX	Primary Pins (Network Side)	Package	
PE-65848	1CS:1CS	3.5-6.5	1.0	1.0	8-5	Surface Mount	
PE-65948	1CT:1CT	3.5-6.5	1.0	1.0	2-6	Through Hole	

 $^{1}CS = center split, CT = center tap$ 

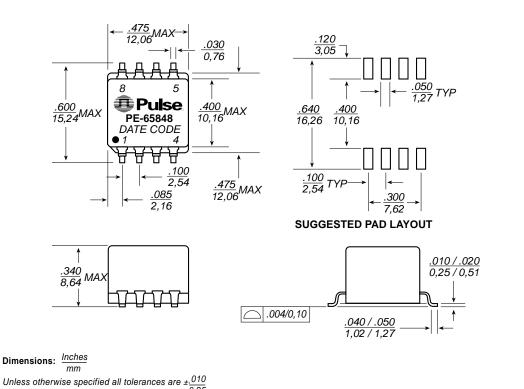
### Mechanical

## Schematic

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#### PE-65948



0.25

 Weight
 .2.0 grams

 Tape & Reel
 .250/reel

 Tube
 .30/tube

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# T602.A (4/96)

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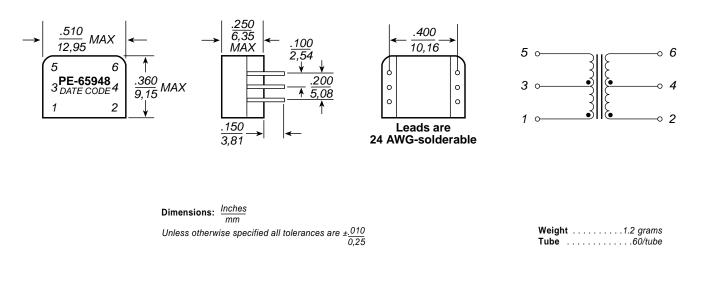


LON<sup>®</sup> technology makes possible a new generation of smart, low-cost products that communicate with one another and that can be linked together to serve applications in consumer electronics, factory automation, vehicle controls, commercial building controls, home automation, and other industries. The PE-65848 and PE-65948 transformers are designed specifically for use with Echelon's NEURON<sup>®</sup> 3120<sup>TM</sup> and NEURON<sup>®</sup> 3150<sup>TM</sup> chips in 1.25 Mbps, twisted pair bus applications. The transformers provide DC isolation and common mode noise rejection. Their characteristics have been optimized to assure the proper pulse waveform is transmitted onto the twisted pair cable when used in conjunction with the recommended circuitry. The transformers provide 1500 Vrms high voltage isolation for one minute, but are not intended for use as a hazardous voltage safety barrier. Order PE-65848T for optional tape and reel packaging (250 pieces per reel). When using PE-65948, centertaps can be created by connecting winding ends together on the PCB.

### Mechanical

### Schematic

#### PE-65848



## For More Information :

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