

TRANSFORMERS FOR ECHELON® NEURON® ICs For Use with 3120™ and 3150™ Chips Produced by Motorola and Toshiba



- For 1.25Mbps twisted pair applications
- Provides 1500Vrms isolation for 1 minute
- 40°C to +80°C operating temperature range

Electrical Specifications @ 25°C — Operating Temperature -40°C to +85°C

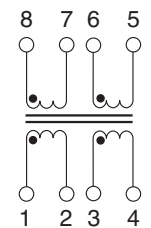
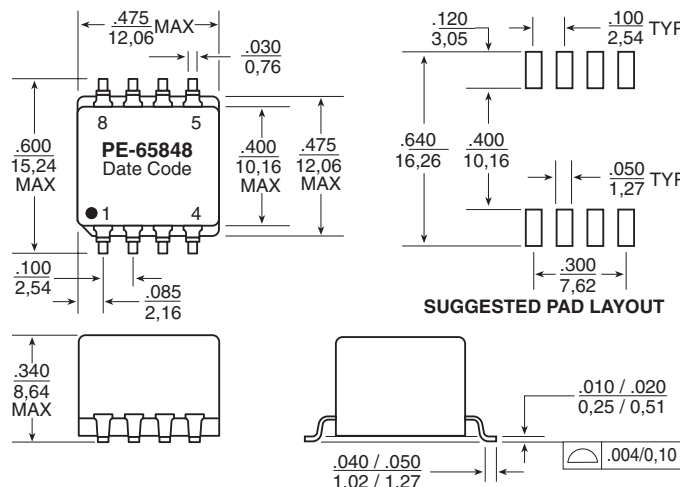
Standard Part Number	RoHS-6 Compliant Part No.	Turns Ratio (±2%)	Primary Inductance (mH)	DCR Primary (Ω MAX)	DCR Secondary (Ω MAX)	Primary Pins (Network Side)	Package
PE-65848	PE-65848NL	1CS:1CS	3.5 - 6.5	1.0	1.0	8 - 5	SMT
PE-65948	PE-65948NL	1CT:1CT	3.5 - 6.5	1.0	1.0	2 - 6	THT

NOTE: CS = Center Split, CT = Center Tap

Mechanicals

Schematics

PE-65848

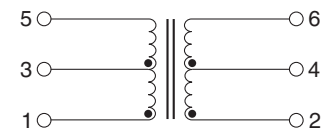
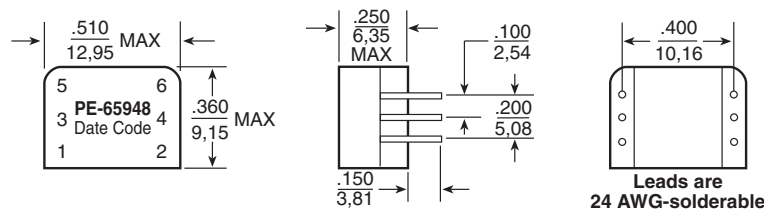


PE-65848 PE-65812

Weight	.20 grams	.12 grams
Tape & Reel	.250/reel	N/A
Tube	.30/tube	.60/tube
Dimensions:	Inches	mm

Unless otherwise specified all tolerances are ±.010 / 0.25

PE-65948



Lon® 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® 3120™ and Neuron® 3150™ 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 1500Vrms high voltage isolation for one minute, but are not intended for use as a hazardous voltage safety barrier. Order PE-65848T for optional Tape & Reel packaging. When using PE-65948, center taps can be created by connecting winding ends together on the PCB.

For More Information:

Pulse Worldwide Headquarters

12220 World Trade Drive
San Diego, CA 92128
U.S.A.
www.pulseeng.com
TEL: 858 674 8100
FAX: 858 674 8262

Pulse Northern Europe

3 Huxley Road
Surrey Research Park
Guildford, Surrey GU2 5RE
United Kingdom
TEL: 44 1483 401700
FAX: 44 1483 401701

Pulse Southern Europe

Zone Industrielle
F-39270
Orgelet
France
TEL: 33 3 84 35 04 04
FAX: 33 3 84 25 46 41

Pulse China Headquarters

No. 1
Industrial District
Changan, Dongguan
China
TEL: 86 769 5538070
FAX: 86 769 5538870

Pulse North China

Room 1503
XinYin Building
No. 888 YiShan Road
Shanghai 200233
China
TEL: 86 21 54643211/2
FAX: 86 21 54643210

Pulse South Asia

150 Kampong Ampat
#07-01/02
KA Centre
Singapore 368324
TEL: 65 6287 8998
FAX: 65 6280 0080

Pulse North Asia

No. 26
Kao Ching Road
Yang Mei Chen
Taoyuan Hsien
Taiwan, R. O. C.
TEL: 886 3 4641811
FAX: 886 3 4641911

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