



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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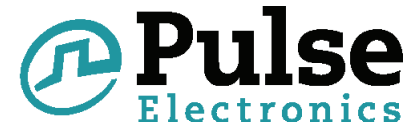
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Through Hole Current Sense Transformers

VDE Approved



- Meet IEC950 insulation requirements
- 4250V_{RMS} primary to secondary breakdown voltage
- Frequency range 10kHz to 200kHz

Electrical Specifications @ 25°C - Operating Temperature -40°C to +130°C

Part Number	I _{PK} (Amps)	R _T (Ω)	Drop (%)	K _V (Volt/Amp)	L _S (mH MIN)	DCR R _S (ΩMAX)	Turns (N _S ± 1%)	K _B	K _{CL}	R _{EO} (mΩ)
PE-67050NL	35	15	2.4	0.30	5.0	0.70	50	.269 x 10 ⁶	51.2 x 10 ⁻⁶	.95
PE-67100NL	37	56	2.2	0.56	20	1.40	100	.0671 x 10 ⁶	1.56 x 10 ⁻⁶	.85
PE-67200NL	38	200	2.0	1.00	80	4.50	200	.0168 x 10 ⁶	47.3 x 10 ⁻⁹	.82
PE-67300NL	37	510	2.2	1.70	180	11.0	300	.00746 x 10 ⁶	6.13 x 10 ⁻⁹	.84

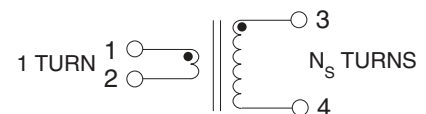
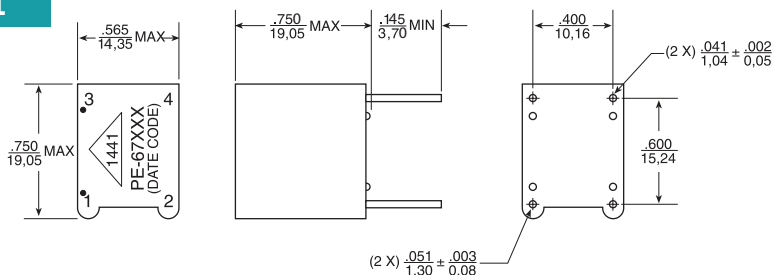
Notes:

- These current sense transformers have a 1 turn primary winding, secondary turns (N_S) as indicated in the table, and a 130°C insulation system.
- The reference values are for unipolar operation, 50kHz, 40% duty factor, and an estimated 55°C temperature rise.
- The maximum useable peak sense current (I_{PK}) depends on the temperature rise or core saturation, which should be evaluated for the operating conditions.
- These Current Sense Transformers are recommended for switch mode power supply applications, unipolar or bipolar, operating at frequencies from 10kHz to 200kHz.
- The maximum recommended operating flux density (B_{OP}) is 2000 gauss to prevent saturation at an operating temperature of 105°C.
- The core loss factor (K_{CL}) is valid from 10kHz to 200kHz at 105°C.
- The terminating resistor (R_T) may be varied to adjust operating flux (B_{OP}), droop, or scale factor (K_V).
- The scale factor (K_V) is proportional to the terminating resistor (R_T) and is equal to 1 volt/amp when R_T=N_S.
- The secondary inductance (L_S) is measured at 15kHz and .5V for PE-67050, 1V for PE-67100, 2V for PE-67200 and 3V for PE-67300.

Mechanical

Schematic

PE-XXXXNL



Parts per package80

Dimension: $\frac{\text{Inches}}{\text{mm}}$

Unless otherwise specified, all tolerances are $\pm \frac{.010}{0.25}$

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