THROUGH HOLE CURRENT SENSE TRANSFORMERS







- Meets IEC950 insulation requirements
- 3750VRMs primary to secondary breakdown voltage



Frequency range 10kHz to 200kHz

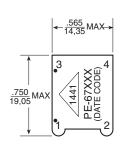
Electrical Specifications @ 25°C — Operating Temperature -40°C to 130°C										
Part Number	І РК (Amps)	R τ (Ω)	Droop (%)	K vı (Volt/Amp)	L s (mH MIN)	DCR Rs (Ω MAX)	Turns (Ns ± 1%)	Кв	K cL	\mathbf{R} EQ (m Ω)
PE-67050	35	15	2.4	0.30	5.0	0.70	50	.269x10 ⁶	51.2x10 ⁻⁶	.95
PE-67100	37	56	2.2	0.56	20	1.40	100	.0671x10 ⁶	1.56x10 ⁻⁶	.85
PE-67200	38	200	2.0	1.00	80	4.50	200	.0168x10 ⁶	47.3x10 ⁻⁹	.82
PE-67300	37	510	2.2	1.70	180	11.0	300	.00746x10 ⁶	6.13x10 ⁻⁹	.84

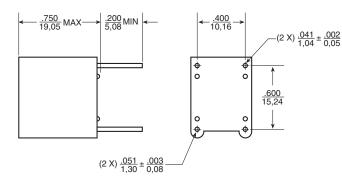
NOTES:

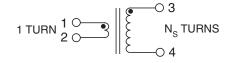
- These current sense transformers have a 1 turn primary winding, secondary turns (Ns) as indicated in the table, and a 130°C insulation system.
- 2. The reference values are for unipolar operation, 50kHz, 40% duty factor, and an estimated 55°C temperature rise.
- 3. The maximum useable peak sense current (IPK) depends on 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 (Bop) is 2000 gauss to prevent saturation at an operating temperature of 105°C.
- 6. The core loss factor (KcL) is valid from 10kHz to 200kHz at 105°C.
- The terminating resistor (RT) may be varied to adjust operating flux (Bop), droop, or scale factor (Kvi).
- The scale factor (KvI) is proportional to the terminating resistor (RT) and is equal to 1 volt/amp when RT=Ns.
- The secondary inductance (Ls) is measured at 15kHz and .5V for PE-67050, 1V for PE-67100, 2V for PE-67200 and 3V for PE-67300.
- 10. To order RoHS compliant part, add the suffix "NL" to the part number (i.e. PE-67050 becomes PE-67050NL).

Mechanical

Schematic







Parts per package80

Inches Dimensions:

Unless otherwise specified, all tolerances are $\pm \frac{.005}{0.13}$

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