

## Meet IEC62368-1 insulation requirements

(®) 4250Vrms primary to secondary breakdown voltage
(®) Frequency range 10 kHz to 200 kHz

| Electrical Specifications @ $25^{\circ} \mathrm{C}-$ Operating Temperature $-40^{\circ} \mathrm{C}$ to $+130^{\circ} \mathrm{C}$ |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Part Number | $\begin{gathered} \mathrm{lpk} \\ \text { (Amps) } \end{gathered}$ | $\begin{gathered} \mathbf{R}_{\mathrm{I}} \\ (\Omega) \end{gathered}$ | Droop <br> (\%) |  | $\begin{gathered} \mathrm{Ls} \\ (\mathrm{mH} M \mathrm{M}) \end{gathered}$ | $\begin{gathered} \text { DCR } \\ \text { Rs } \\ (\Omega \mathrm{MAX}) \end{gathered}$ | $\begin{gathered} \text { Turns } \\ \left(\mathrm{N}_{\mathrm{s}} \pm 1 \%\right) \end{gathered}$ | K ${ }_{\text {B }}$ | Ka | $\begin{aligned} & \text { Rea } \\ & (\mathrm{m} \Omega) \end{aligned}$ |
| PE-67050NL | 35 | 15 | 2.4 | 0.30 | 5.0 | 0.70 | 50 | . $269 \times 10^{6}$ | $51.2 \times 10^{-6}$ | . 95 |
| PE-67100NL | 37 | 56 | 2.2 | 0.56 | 20 | 1.40 | 100 | . $0671 \times 10^{6}$ | $1.56 \times 10^{-6}$ | . 85 |
| PE-67200NL | 38 | 200 | 2.0 | 1.00 | 80 | 4.50 | 200 | . $0168 \times 10^{6}$ | $47.3 \times 10^{-9}$ | . 82 |
| PE-67300NL | 37 | 510 | 2.2 | 1.70 | 180 | 11.0 | 300 | . $00746 \times 10^{6}$ | $6.13 \times 10^{-9}$ | . 84 |

## Notes:

1. These current sense transformers have a 1 turn primary winding, secondary turns (Ns) as indicated in the table.
2. The reference values are for unipolar operation, $50 \mathrm{kHz}, 40 \%$ duty factor, and an estimated $55^{\circ} \mathrm{C}$ temperature rise.
3. The maximum useable peak sense current (lpk) depends on the temperature rise or core saturation, which should be evaluated for the operating conditions.
4. These Current Sense Transformers are recommended for switch mode power supply applications, unipolar or bipolar, operating at frequencies from 10 kHz to 200kHz.
5. The maximum recommended operating flux density (Bop) is 2000 gauss to prevent saturation at an operating temperature of $105^{\circ} \mathrm{C}$.
6. The core loss factor ( $\mathrm{K}_{\mathrm{c}}$ ) is valid from 10 kHz to 200 kHz at $105^{\circ} \mathrm{C}$.
7. The terminating resistor ( $\mathrm{R}_{\mathrm{T}}$ ) may be varied to adjust operating flux (Bop), droop, or scale factor (Ky).
8. The scale factor (Ky) is proportional to the terminating resistor $\left(\mathrm{R}_{\mathrm{T}}\right)$ and is equal to 1 volt/amp when Ri=Ns.
9. The secondary inductance (LS) is measured at 15 kHz and .5 V for PE-67050, IV for PE-67100, 2V for PE-67200 and 3V for PE-67300.

Mechanical
Schematic

## PE-XXXXXNL



(2 X) $\frac{.051}{1,30} \pm \frac{.003}{0,08}$



Parts per package $\qquad$
Dimension: $\frac{\text { Inches }}{\mathrm{mm}}$
Unless otherwise specified, all tolerances are $\pm \frac{.010}{0,25}$

# Transformers for Digital Audio Data Transmission 

For Use with Cirrus Logic's CS8401,CS8402, CS8403 \& CS8404 ICs

## Application

These transformers have been designed for use at the interface between line driver and receiver and the interconnecting medium in Digital Audio Data Transmission Systems according to AES 3-199X or IEC 958. In such systems, two channels of periodically sampled and uniformly quantized audio signals are transmit on a single shielded twisted pair.

The electrical parameters of the interface are based on those of CCITT V.II or balanced voltage digital circuits which allow signal transmission up to a few hundred meters. The isolation transformers are essential in improving the balance of the transmitter and the receiver circuitry, and reducing common mode noise and EMI.

These transformers are recommended for use with the Cirrus Logic CS8401, CS8402, CS8403 and CS8404 "Digital Audio Interface Transmit Device. The schematic below represents an implementation of transmit and receive circuits using isolation transformers at both ends. Equalization in the receiver may permit to increase the length of the interconnecting cable.

Applicable Documents
AES 3-1985 (ANSI S4.40-1985), AES 3-199XDraft, IEC 958, CP-340, EBU 3250

## Application Chart


$\mathrm{T}_{1}, \mathrm{~T}_{2}$ : PE-65612 or PE-65812

## For More Information

| Pulse Worldwide | Pulse Europe |
| :--- | :--- |
| Headquarters | Pulse Electronics GmbH |
| 15255 Innovation Drive Ste 100 | Am Rottland 12 |
| San Diego, CA 92128 | 58540 Meinerzhagen |
| U.S.A. | Germany |

Pulse China Headquarters
Pulse Electronics (ShenZhen) CO., LTD
D708, Shenzhen Academy of
Aerospace Technology,
The 10th Keji South Road,
Nanshan District, Shenzhen, P.R.
China 518057

| Pulse North China | Pulse South Asia | Pulse North Asia |
| :--- | :--- | :--- |
| Room 2704/2705 | 3Fraser Street | IF, No.111 |
| Super Ocean Finance Ctr. | O428 DU0 Tower | Xiyuan Road |
| 2067 Yan An Road West | Singapore 189352 | Zhongli District |
| Shanghai 200336 |  | Taoyuan City 32057 |
| China |  | Taiwan (R.O.C) |


| Tel: 8586748100 | Tel: 492354777100 | Tel: 8675533966678 | Tel: 862162787060 | Tel: 6562878998 | Tel: 88634356768 |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Fax: 8586748262 | Fax: 492354777168 | Fax: 8675533966700 | Fax: 862162786973 | Fax: 6562800080 | Fax: 88634356820 |

[^0]
## X-ON Electronics

Largest Supplier of Electrical and Electronic Components
Click to view similar products for Current Transformers category:

## Click to view products by Pulse manufacturer:

Other Similar products are found below :
L595100 ACST-260 MP3500 L595050 BV EI 3042089 PACT RCP-4000A-UIRO-PT-D14 PACT RCP-4000A-UIRO-PT-D19 E54CT1L CTD-KIT $\underline{44021 ~} 44104 \underline{44176} \underline{44248} \underline{45023} \underline{45041} \underline{45071} \underline{\text { PA3828NL CT16-1-50A/50MA SPCT 100/60 1200/5A VA } 15 \text { CL } 0.5}$ SPCT 100/60 1000/5A VA 15 CL 0.5 SPCT 100/60 600/5 A VA 7.5 CL 1 SPCT 100/60 600/5 A VA 5 CL 0.5 SPCT 100/60 800/5 A VA 10 CL 0.5 SPCT 140/100 1200/5A VA 15 CL 0.5 SPCT 140/100 1250/5A VA 15 CL 0.5 SPCT 140/100 1500/5A VA 15 CL 0.5 SPCT 140/100 1600/5A VA 15 CL 0.5 SPCT 140/100 1000/5A VA 15 CL 0.5 SPCT 140/100 2500/5A VA 15 CL 0.5 SPCT 140/100 2000/5A VA 15 CL 0.5 SPCT $140 / 1003000 / 5 A$ VA 15 CL 0.5 SPCT 140/100 800/5A VA 15 CL 0.5 SPCT 62/30 50/5A VA1 CL 3 SPCT 62/30 60/5A VA1 CL 3 SPCT $\underline{62 / 3075 / 5 A ~ V A 1 ~ C L ~} 3 \underline{\text { SPCT 62/30 75/5A VA3 CL } 3} \underline{\text { SPCT 62/40 100/5 A VA } 1 \text { CL } 1} \underline{\text { SPCT 62/40 125/5 A VA } 1 \text { CL } 1} \underline{\text { SPCT 62/40 150/5 A }}$ VA 3 CL 1 SPCT 62/40 160/5 A VA 1.5 CL 1 SPCT 62/40 200/5 A VA 2,5 CL 0,5 SPCT 62/40 200/5 A VA 3 CL $1 \xrightarrow[\text { SPCT 62/40 250/5 A VA }]{ }$ 3 CL 1 SPCT 62/40 300/5 A VA 3 CL 0.5 SPCT 62/40 400/5 A VA 3.75 CL 0.5 2CSM029000R1211 HPT205NBJ-1 HCT204KFH HCT20KQD HPT205A/F


[^0]:    Performance warranty of products offered on this data sheet is limited to the parameters specified. Data is subject to change without notice. Other brand and product names mentioned herein may be trademarks or registered trademarks of their respective owners. © Copyright, 2019. Pulse Electronics, Inc. All rights reserved.

