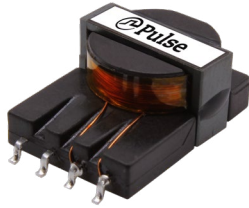


# SMT Current Sense Transformers

PAS6322.XXXNLT



- Ⓟ **Height:** 7mm Max
- Ⓟ **Footprint:** 12.8mm x 20.5mm Max
- Ⓟ **Current Rating:** up to 50A
- Ⓟ **Inductance Range:** 20kHz to 1MHz
- Ⓟ **Insulation:** Reinforced, 10mm creepage
- Ⓟ **Isolation:** 5kv DC, 6s

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

Part Number	Turns Ratio	Current <sup>2</sup> Rating	Secondary Inductance (mH MIN)	DCR (mΩ MAX)		Hipot (V <sub>RMS</sub> )
				Primary (8-7)	Secondary (1-3)	
PAS6322.030NLT	1:30	50	0.40	0.5	240	3500
PAS6322.050NLT	1:50		1.1	0.5	600	3500
PAS6322.100NLT	1:100		4.5	0.5	2600	3500
PAS6322.125NLT	1:125		7	0.5	4200	3500
PAS6322.150NLT	1:150		10	0.5	6000	3500
PAS6322.200NLT	1:200		17.5	0.5	12000	3500

### Notes:

- The temperature of component (ambient temperature plus temperature rise) must be within the specified operating temperature range.
- The maximum current rating is based upon temperature rise of the component and represents the DC current which will cause a typical temperature rise of 40°C with no airflow.
- To calculate value of terminating resistor (Rt) use the following formula:  

$$R_t (W) = V_{ref} * N / (I_{peak\_primary})$$
- The peak flux density of the device must remain below 2000 Gauss. To calculate the peak flux density for uni-polar current use following formula:  

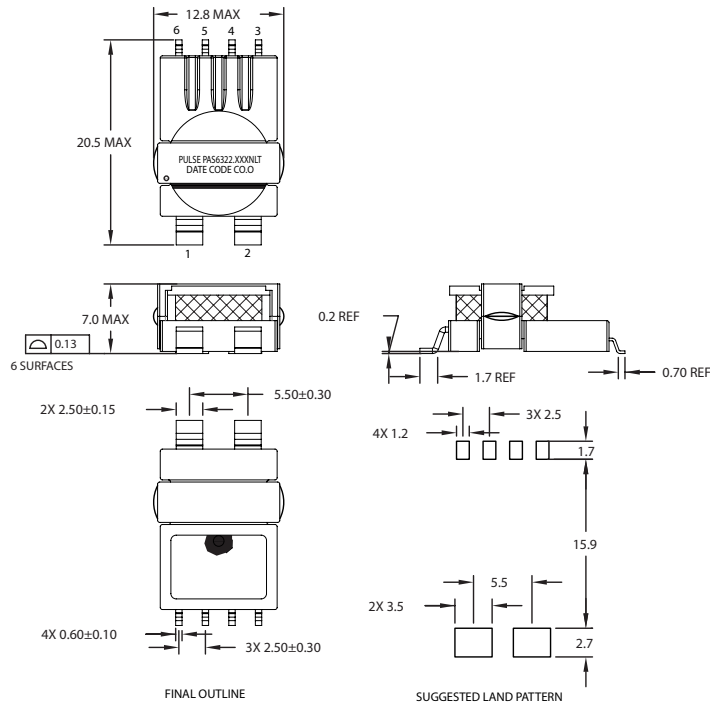
$$B_{pk} = 18.2 * V_{ref} * (Duty\_Cycle\_Max) * 10^5 / (N * Freq\_kHz)$$

\* for bi-polar current applications divide Bpk (as calculated above) by 2.
- Optional Tape & Reel packaging can be ordered by adding a "T" suffix to the part number (i.e. PAS6322.XXXNL becomes PAS6322.XXXNLT). Pulse complies to industry standard tape and reel specification EIA481.
- The "NL" suffix indicates an RoHS-compliant part number. Non-NL suffixed parts are not necessarily RoHS compliant, but are electrically and mechanically equivalent to NL versions. If a part number does not have the "NL" suffix, but an RoHS compliant version is required, please contact Pulse for availability.
- This design complies with basic insulation according to EC60664/ IEC60590-1/IEC61558-1/-2-16 for a working voltage up to 500Vrms and with reinforced insulation according to IEC60664/IEC60950-1 for working voltage up to 300Vrms Application condition: OVC II, Pollution degree 2, Material Group 3, Altitude up to 2km.

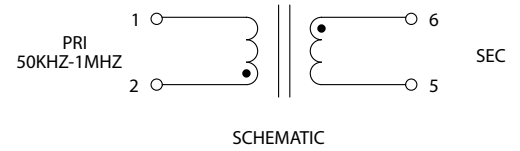
# SMT Current Sense Transformers

PAS6322.XXXNLT

## Mechanical



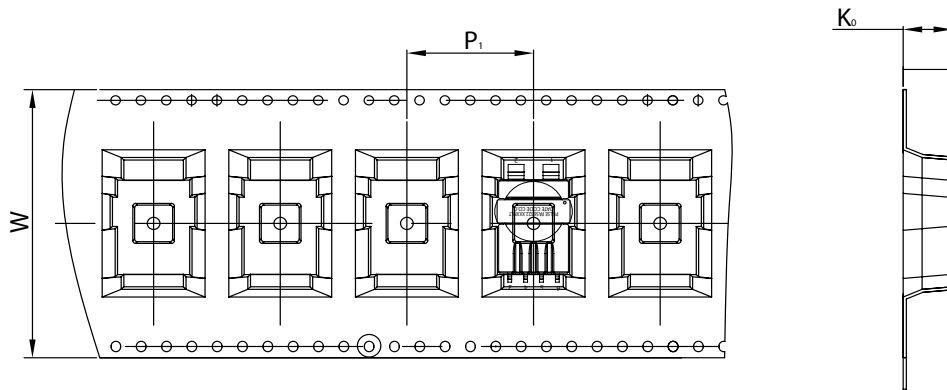
## Schematic



Weight .....2 grams  
Tape & Reel .....350 pcs/reel

Dimensions:  $\frac{\text{Inches}}{\text{mm}}$   
Unless otherwise specified,  
all tolerances are:  $\pm 0.25^{010}$

## TAPE & REEL INFO



### SURFACE MOUNTING TYPE, REEL/TAPE LIST

PART NUMBER	TAPE SIZE (mm)			QTY
	P <sub>1</sub>	W	K <sub>0</sub>	PCS/REEL
PAS6322.XXXNLT	20	40	7.5	350

### For More Information:

Americas - [prodinfo\\_power\\_americas@pulseelectronics.com](mailto:prodinfo_power_americas@pulseelectronics.com) | Europe - [prodinfo\\_power\\_emea@pulseelectronics.com](mailto:prodinfo_power_emea@pulseelectronics.com) | Asia - [prodinfo\\_power\\_asia@pulseelectronics.com](mailto:prodinfo_power_asia@pulseelectronics.com)

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[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](#) [SPCT 62/40 250/5 A VA 3 CL 1](#) [SPCT 62/40 300/5 A VA](#)  
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