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SMT Current Sense Transformers
ER11 PAS/PMS6322.XXXNLT SERIES



- ***Current Rating:*** *up to 50A*
- ***Footprint:*** *12.8mm x 20.5mm x 7.5mm Max*
- ***Frequency Range:*** *20kHz to 1MHz*
- ***Insulation:*** *Reinforced, 10mm creepage and clearance*
- ***Hipot Isolation:*** *5000 Vdc, 6 sec*
- ***Voltage Rating:*** *Up to 1000 Vpk*

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

Part Number		Turns Ratio	Current[2] Rating	Secondary Inductance (mH MIN)	DCR (mΩ MAX)		Hipot (Vdc)
Commerical	Automotive				Primary (1-2)	Secondary (5-6)	
PAS6322.030NLT	PMS6322.030NLT	1:30	50	0.30	0.5	240	5000
PAS6322.050NLT	PMS6322.050NLT	1:50		1.1	0.5	600	
PAS6322.100NLT	PMS6322.100NLT	1:100		4.5	0.5	2600	
PAS6322.125NLT	PMS6322.125NLT	1:125		7	0.5	4200	
PAS6322.150NLT	PMS6322.150NLT	1:150		10	0.5	6000	
PAS6322.200NLT	PMS6322.200NLT	1:200		17.5	0.5	12000	

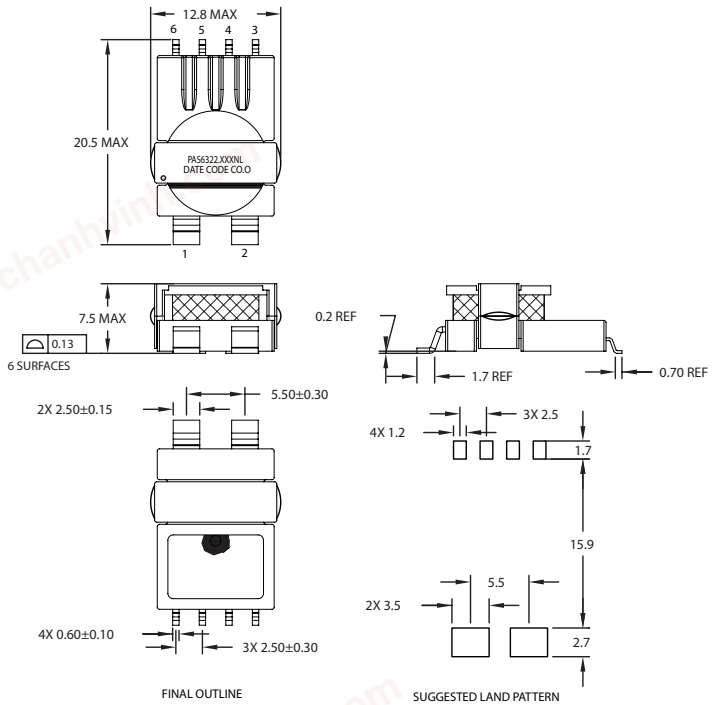
Notes:

1. The temperature of component (ambient temperature plus temper-ature rise) must be within the specified operating temperature range.
2. 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.
3. To calculate value of terminating resistor (Rt) use the following formula:
   Rt (W) = Vref * N /(Ipeak_primary)
4. 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:
   Bpk = 18.2 * Vref * (Duty_Cycle_Max) * 10^5 / (N * Freq_kHz)
   * for bi-polar current applications divide Bpk (as calculated above) by 2.
5. 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.
6. Creepage & Clearance is in accordance with IEC 61558-1 for reinforced insulation to a working voltage of 300Vms (for basic insulation to a working voltage of 1000Vms) based on material group III, pollution degree 2, OVC II and 5000M altitude.
7. Rated voltage is based on a positive partial discharge test (discharge < 10pC) during the design phase (not production tested), in accordance with IEC 60664 for basic insulation. In an application which requires a reinforced insulation barrier, a rated voltage of the equivalent peak voltage of the 300Vrms (sinusoidal) working voltage, 424Vpk, is defined and confirmed by partial discharge testing.

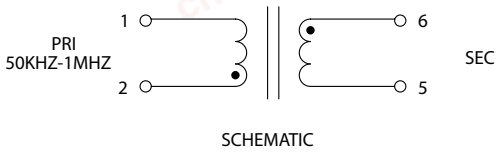
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Mechanical



Schematic

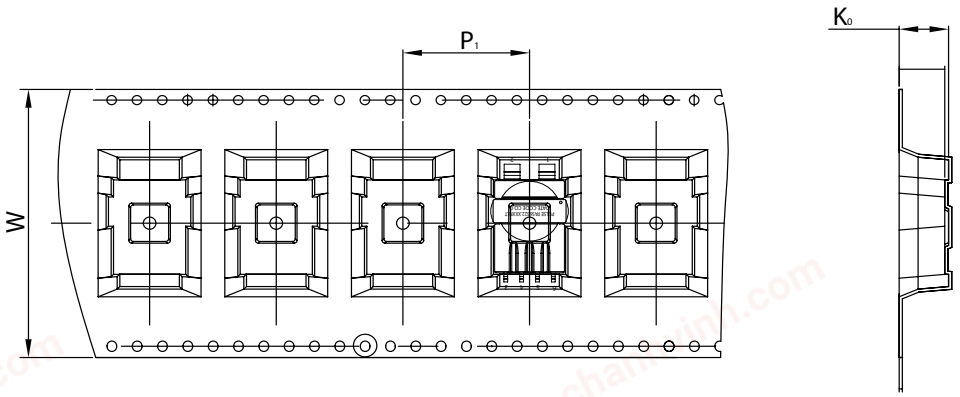


SCHEMATIC

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

Dimensions: Inches / mm
Unless otherwise specified, all tolerances are: ±.010 / 0.25

TAPE & REEL INFO



SURFACE MOUNTING TYPE, REEL/TAPE LIST				
PART NUMBER	TAPE SIZE (mm)			QTY
	P_1	W	K_0	PCS/REEL
PAS/PMS6322.XXXNLT	20	40	7.5	350