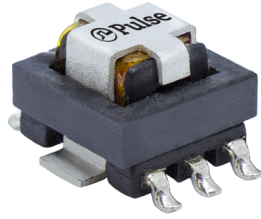


# SMT Current Sense Transformer

PMS9494.XXXNLT EE8 SMD Platform



- Ⓢ **Current Rating:** up to 30A
- Ⓢ **Footprint:** 13mm x 10.5mm x 7.2mm Max
- Ⓢ **Frequency Range:** 20kHz to 1MHz
- Ⓢ **Insulation:** Functional
- Ⓢ **Hipot Isolation:** 1200Vrms, 6 sec
- Ⓢ **Voltage Rating:** Up to 375Vpk

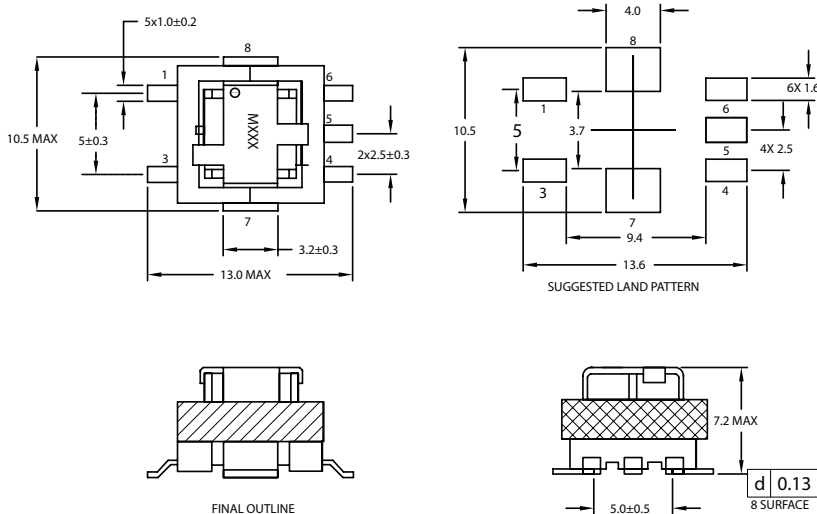
## Electrical Specifications @ 25°C — Operating Temperature -40°C to +125°C

Part Number	Turns Ratio ±1.50	Current <sup>2</sup> Rating (A)	Secondary Inductance (mH Min)	DCR		Hipot (Vrms)
				Primary (8-7)(mΩ Max)	Secondary (1-3)(Ω Max)	
PMS9494.050NLT	50	30	0.55	0.35	0.66	1200
PMS9494.100NLT	100	30	2.2	0.35	3.3	1200
PMS9494.150NLT	150	30	5.0	0.35	8.2	1200
PMS9494.200NLT	200	30	9.0	0.35	14	1200

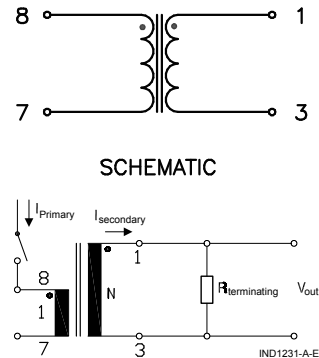
### NOTES:

- 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.
- 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 2200 Gauss. To calculate the peak flux density for uni-polar current use following formula:  
 $B_{pk} = 18.8 * V_{REF} * (Duty\_Cycle\_Max) * 10^5 / (N * Freq\_kHz)$   
 \* for bi-polar current applications divide Bpk (as calculated above) by 2.
- Rated voltage is based on a positive partial discharge test (discharge < 10pC) during the design phase (not production tested) for a 375V repetitive peak voltage (Urp). The test condition was with an extinction voltage, U2 = 1.1\* Urp, after an inception voltage, U1 = 1.2\*U2.

## Mechanical



## Schematic



Weight ..... 1.2 grams  
 Tape & Reel ..... 450/reel

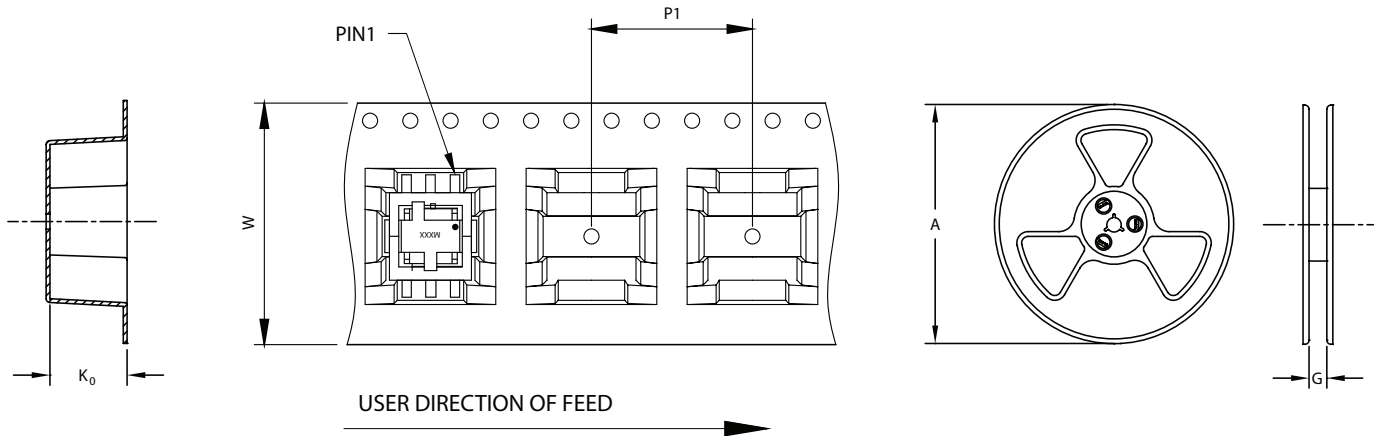
Dimensions: mm

Unless otherwise specified, all tolerances are ± 0.25

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## TAPE & REEL INFO



### SURFACE MOUNTING TYPE, REEL/TAPE LIST

PART NUMBER	REEL SIZE (mm)		TAPE SIZE (mm)			QTY
	A	G	P <sub>1</sub>	W	K <sub>0</sub>	PCS/REEL
PMS9494.XXXNLT	330	24.4	16	24	7.9	450

### For More Information:

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