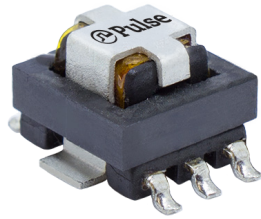


SMT Current Sense Transformer

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 ² 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:

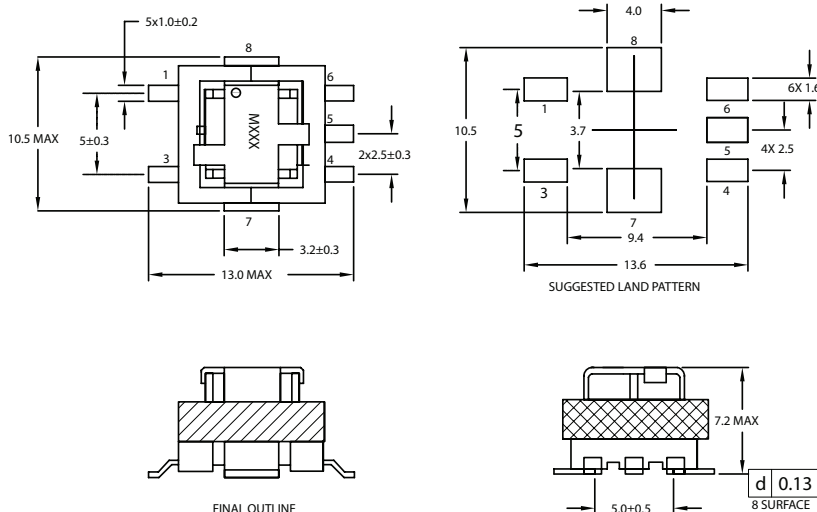
- The temperature of component (ambient temperature plus temperature rise) must be within the specified operating temperature range.
- The maximum current rating is based upon temperature rise of the component and represents the DC current which will cause a typical temperature rise of 40°C.
- To calculate 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:

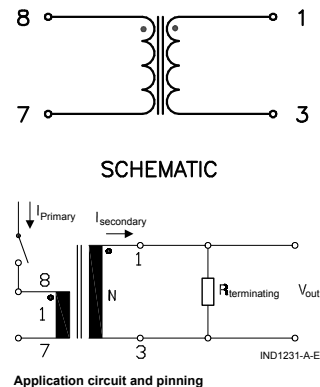
$$B_{pk} = 18.8 * V_{REF} * (Duty_Cycle_Max) * 10^5 / (N * Freq_kHz)$$

*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 = 1.25*U2.

Mechanical



Schematic



Weight 1.2 grams

Tape & Reel 450/reel

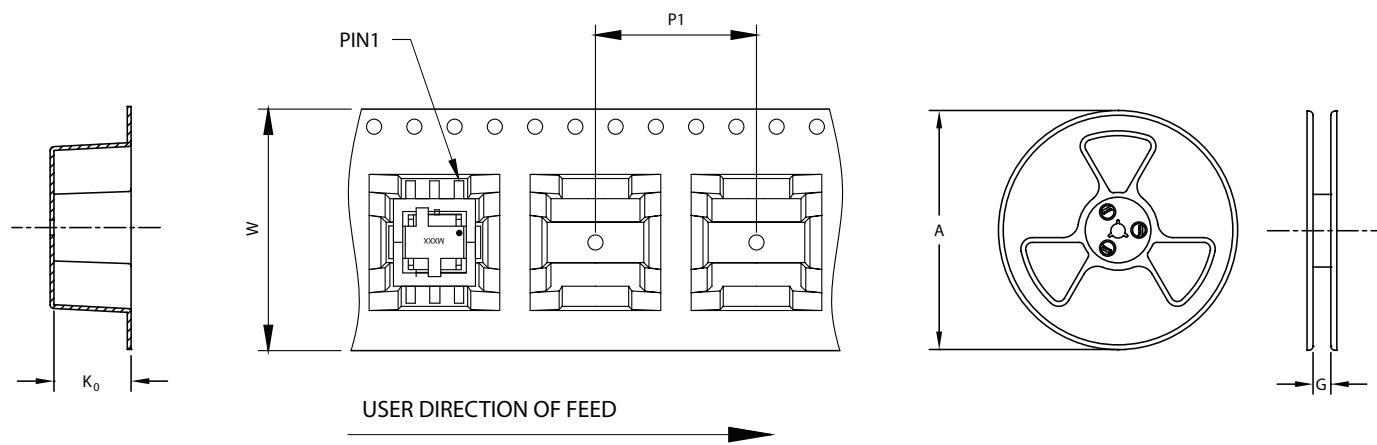
Dimensions: mm

Unless otherwise specified, all tolerances are ± 0.25

SMT Current Sense Transformer

PMS9494.XXXNLT EE8 SMD Platform

TAPE & REEL INFO



SURFACE MOUNTING TYPE, REEL/TAPE LIST						
PART NUMBER	REEL SIZE (mm)		TAPE SIZE (mm)			QTY
	A	G	P ₁	W	K ₀	PCS/REEL
PMS9494.XXXNLT	330	24.4	16	24	7.9	450

For More Information:

Americas - prodinfo_power_americas@yageo.com | Europe - prodinfo_power_emea@yageo.com | Asia - prodinfo_power_asia@yageo.com

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