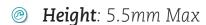
SMT Current Sense Transformer

PA1005QNL Series









Footprint: 8.4mm x 7.2mm Max

© Current Rating: up to 20A

Frequency Range: 50kHz to 1MHz

Electrical Specifications @ 25°C — Operating Temperature -40°C to +125°C									
Part ^{5,6} Number	Turns Ratio	Current ² Rating (A)	Secondary Inductance (mH MIN)	DCR (mΩ Max)		Llinat			
				Primary (8-7)	Secondary (1-3)	Hipot (Vrms)			
PA1005.020QNL	1:20	20	0.08	0.75	550	900			
PA1005.030QNL	1:30	20	0.18	0.75	870	900			
PA1005.040QNL	1:40	20	0.32	0.75	1140	900			
PA1005.050QNL	1:50	20	0.50	0.75	1500	900			
PA1005.060QNL	1:60	20	0.72	0.75	2250	900			
PA1005.070QNL	1:70	20	0.98	0.75	4750	900			
PA1005.100QNL	1:100	20	2.00	0.75	5500	900			
PA1005.125QNL	1:125	20	3.00	0.75	6500	900			

NOTES:

- The temperature of component (ambient temperature plus temper-ature 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 when both one turn windings connected in parallel.
- To calculate value of terminating resistor (Rt) use the following formula:
 Rt (W) = VREF * N / (Ipeak 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:

Bpk = $37.59 * VREF * (Duty_Cycle_Max) * 10^5 / (N * Freq_kHz)$

- Optional Tape & Reel packaging can be ordered by adding a "T" suffix to the part number (i.e. PA1005.0200NL becomes PA1005.0200NLT). Pulse complies to industry standard tape and reel specification EIA481.
- 6. The "NL" suffix indicates an RoHS-compliant part number.

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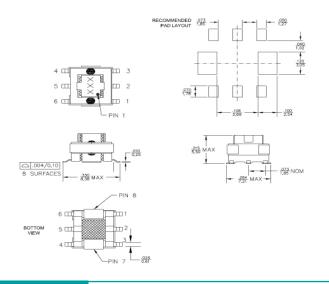
^{*} for bi-polar current applications divide Bpk (as calculated above) by 2.

SMT Current Sense Transformer

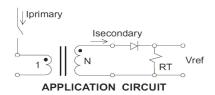
PA1005QNL Series



Mechanical Schematic



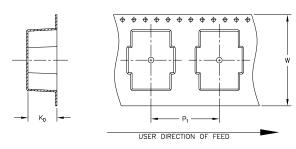


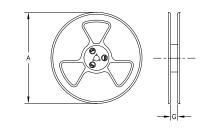


Weight		 0.34 grams
Tray		 120/tray
Tape &	Reel	 900/reel
Coplana	ritv	 0.004 inches

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

TAPE & REEL INFO





SURFACE MOUNTING TYPE, REEL/TAPE LIST									
DADT NUMDED	REEL SIZE (mm)		TAPE SIZE (mm)			QTY			
PART NUMBER	Α	G	P ₁	W	K 0	PCS/REEL			
PA1005.XXXQNLT	Ø330	16.4	12	16	5.65	900			

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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