SMT Current Sense Transformers

PA1005.XXXNL and PM2165.XXXNL















Meight: 5.5mm Max

® **Footprint:** 8.4mm x 7.2mm Max

@ Current Rating: up to 20A

Frequency Range: 20kHz to 1MHzLow Primary DCR version of P820X

Electrical Specifications @ 25°C — Operating Temperature -40°C to +130°C											
Part Number			Current Rating ²	Secondary Inductance	DCR (mΩ MAX)		Hipot				
Commerical	Automotive ⁷	Turns Ration	(A)	(mH MIN)	Primary (8-7)	Secondary (1-3)	(V _{RMS})				
PA1005.020NL	PM2165.020NL	1:20	20	0.08	0.75	550	1000				
PA1005.030NL	PM2165.030NL	1:30	20	0.18	0.75	870	1000				
PA1005.040NL	PM2165.040NL	1:40	20	0.32	0.75	1140	1000				
PA1005.050NL	PM2165.050NL	1:50	20	0.5	0.75	1500	1000				
PA1005.060NL	PM2165.060NL	1:60	20	0.72	0.75	2500	1000				
PA1005.070NL	PM2165.070NL	1:70	20	0.98	0.75	4750	1000				
PA1005.100NL	PM2165.100NL	1:100	20	2.00	0.75	6000	1000				
PA1005.125NL	PM2165.125NL	1:125	20	3.00	0.75	7700	500				

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.
- 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 = 37.59 * Vref * (Duty_Cycle_Max) * 10⁵ / (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. PA1005.020NL becomes PA1005.020NLT). Pulse complies to industry standard tape and reel specification EIA481.
- 6. 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.

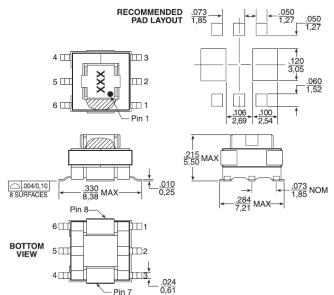
7. The PM2165.XXXNL part numbers are AEC-Q200 and IATF16949 certified. The mechanical dimensions are 100% tested in production but do not necessarily meet aproduct capability index (Cpk) >1.33 and therefore may not strictly conform to PPAP.

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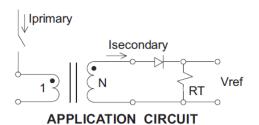
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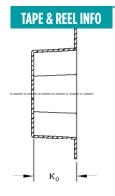
Mechanical Schematic

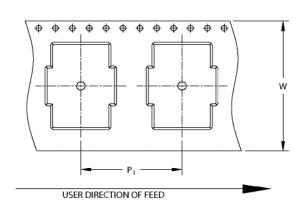


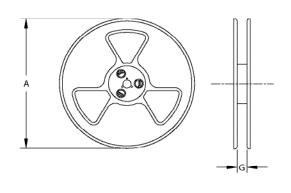




Weight	0.34grams	Dimensions: Inches
Tape & Reel	900/reel	Unless otherwise specified, all tolerances are: $\pm \frac{010}{0.25}$
Trav	120/trav	all tolerances are: $\pm \frac{.010}{0.25}$







SURFACE MOUNTING TYPE, REEL/TAPE LIST										
PART NUMBER	REEL SIZE (mm)		TAPE SIZE (mm)			QTY				
PAKI NUMBEK	А	G	P ₁	W	$K_{_{0}}$	PCS/REEL				
PA1005.XXXNLT/PM2165.XXXNLT	Ø330	16.4	12	16	5.65	900				

For More Information:

Americas - prodinfo_power@pulseelectronics.com | Europe - power-apps-europe@pulseelectronics.com | Asia - power-apps-asia@pulseelectronics.com

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