

Electrical Specifications @ $25^{\circ} \mathrm{C}-$ Operating Temperature $-40^{\circ} \mathrm{C}$ to $+130^{\circ} \mathrm{C}$

| Part Number |  | Turns Ration | Current Rating ${ }^{2}$ <br> (A) | Secondary Inductance (mH MIN) | DCR (m $\Omega$ MAX) |  | $\begin{aligned} & \text { Hipot } \\ & \left(V_{\text {RMS }}\right) \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Commerical | Automotive ${ }^{7}$ |  |  |  | Primary (8-7) | Secondary (1-3) |  |
| 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 | 2250 | 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 | 5500 | 1000 |
| PA1005.125NL | PM2165.125NL | 1:125 | 20 | 3.00 | 0.75 | 6500 | 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 $D C$ current which will cause a typical temperature rise of $40^{\circ} \mathrm{C}$ with no airflow.
3. To calculate value of terminating resistor (Rt) use the following formula: Rt $(W)=$ Vref * $\mathrm{N} /$ (lpeak_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) * $100^{5}$ / ( ${ }^{*}$ 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. PA1005.020NL becomes PA1005.02ONLT). 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 $(C \mathrm{pk})>1.33$ and therefore may not strictly conform to PPAP.

## SMT Current Sense Transformers

PA1005. $X X X N L$ and PM2165. $X X X N L$

Mechanical


Schematic

$\downarrow^{\text {Iprimary }}$


APPLICATION CIRCUIT

Weight $\qquad$ 0.34grams Dimensions: $\frac{\text { nches }}{n m m}$ Tape \& Reel ................................reel Unless otherwise specified,
Tray ...............................tray all tolerances are: $\pm \begin{aligned} & 0,10\end{aligned}$

TAPE \& REEL NFO


## SURFACE MOUNTING TYPE, REEL/TAPE LIST

| PART NUMBER | REEL SIZE (mm) |  | TAPE SIZE (mm) |  |  | QTY |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | A | G | $\mathrm{P}_{1}$ | W | $\mathrm{~K}_{0}$ | PCS/REEL |
| PA1005.XXXNLT/PM2165.XXXNLT | 0330 | 16.4 | 12 | 16 | 5.65 | 900 |

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