
(12) Height: 5.5 mm Max
(1) Footprint: $8.4 \mathrm{~mm} \times 7.2 \mathrm{~mm}$ Max
(12) Current Rating: up to 10A
(®) Frequency Range: 20 kHz to 1 MHz
(12) Lower Primary DCR version available: PA1005.XXX series

| Electrical Specifications @ $25^{\circ} \mathrm{C}-$ Operating Temperature $-40^{\circ} \mathrm{C}$ to $+130^{\circ} \mathrm{C}$ |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Current ${ }^{2}$ | Secondary |  |  | Hipot |
| Part ${ }^{6,1}$ <br> Number | Turns <br> Ratio | Rating <br> (A) | Inductance (mH MIN) | Primary (8-7) | Secondary (1-3) | $\left(V_{\text {RNH }}\right)$ |
| P8202NL | 1:20 | 10 | 0.08 | 6 | 550 | 500 |
| P8203NL | 1:30 | 10 | 0.18 | 6 | 870 | 500 |
| P8204NL | 1:40 | 10 | 0.32 | 6 | 1140 | 500 |
| P8205NL | 1:50 | 10 | 0.50 | 6 | 1500 | 500 |
| P8206NL | 1:60 | 10 | 0.72 | 6 | 2250 | 500 |
| P8207NL | 1:70 | 10 | 0.98 | 6 | 4700 | 500 |
| P8208NL | 1:100 | 10 | 2.00 | 6 | 5500 | 500 |
| P8209NL | 1:125 | 10 | 3.00 | 6 | 6500 | 500 |

## Notes:

1. The temperature of the component (ambient temperature plus temperature 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 $40 C$ with no airflow.
3. To calculate the value of the terminating resistor (Rt) use the following formula:

Rt $(\Omega)=$ Vref * 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 $=37.59^{*} V_{\text {REF }} *$ (Duty_Cycle_Max) ${ }^{*} 10^{5} /\left({ }^{*}\right.$ Freq_kHz)

* for bi-polar current applications divide Bok (as calculated above) by 2.

5. Part number P8222 to P8229 are reverse polarity versions of P820X.
6. Optional Tape \& Reel packaging can be ordered by adding a "T" suffix to the part number (i.e. P8202NL becomes P8202NLT). Pulse complies to industry standard tape and reel specification EIA481.
7. 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.

Mechanical
Schematic


| For More Information |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
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 3 CL 0.5 SPCT 62/40 400/5 A VA 3.75 CL 0.5 2CSM029000R1211 HPT205NBJ-1 HCT204KFH HCT20K-QD HPT205A/F HCT-1(80)AH

