

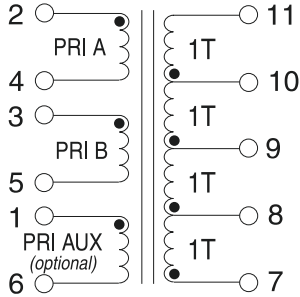
HIGH FREQUENCY FLAT COIL PLANAR TRANSFORMERS

PH08XXNL Series (up to 160W)

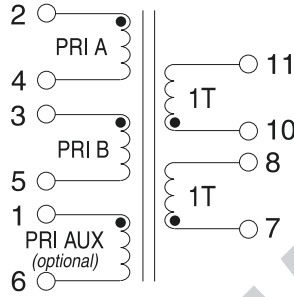
Schematics

PH08XXNL

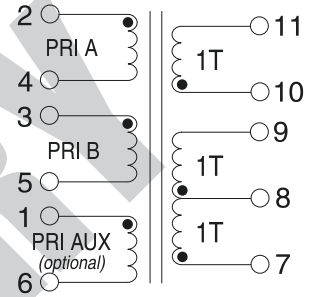
A1
PH0801 / 02 / 03 / 04 / 05



A2
PH0806 / 07 / 08 / 09 / 10



A3
PH0811 / 12 / 13 / 14 / 15

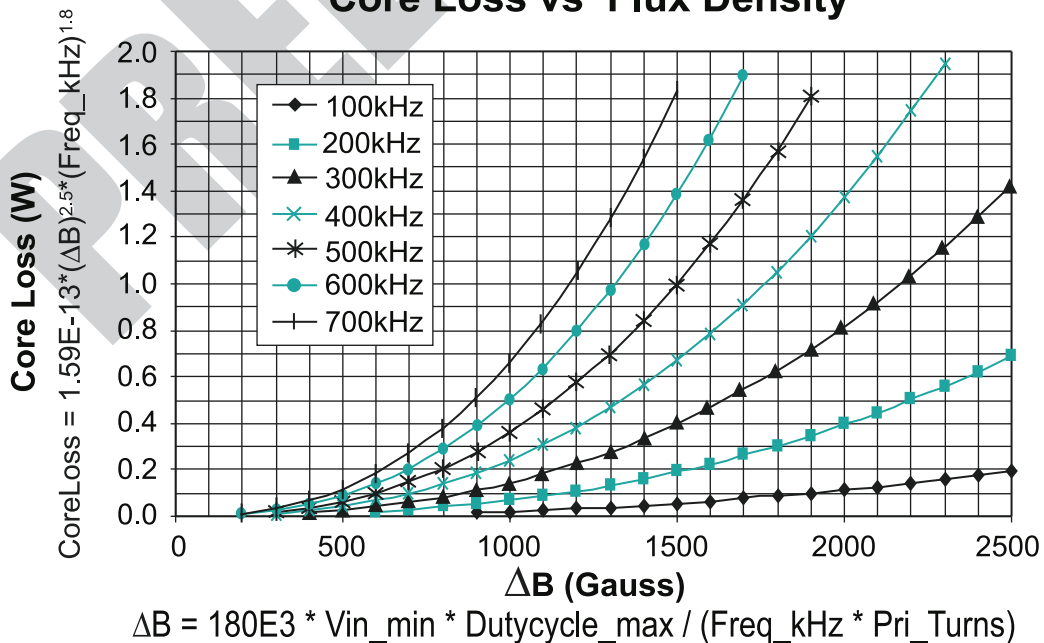


Notes:

1. Inductance is measured with both primary windings connected in series (2 to 5, with 3 and 4 shorted).
2. Leakage inductance is measured on winding (2-5) with (3-4) and (7, 8, 9, 10, 11) shorted.
3. The "NL" suffix indicates an RoHS-compliant part number.
4. It is possible to add a primary side aux. winding to any of the above configurations as shown in the schematics. Transformers with primary side aux. winding are non-standard and can be made available upon request. The primary aux. winding can be between 2 and 16 turns. To add a primary aux. winding to a given base, use the

- extension .xxx. For example, to add a 4T aux. winding to the base part number PH0801NL, use the part number PH0801.004NL. The height increases by 0.5mm for .xxx part. For example, **PH0801NL** is 8.6mm MAX, **PH0801.004NL** is 9.1mm MAX.
5. Optional Tape & Reel packaging can be ordered by adding a "T" suffix to the complete number (i.e. **PH0801.009NL** becomes **PH0801.009NLT**).
6. To determine if the transformer is suitable for your application, it is necessary to ensure that the temperature rise of the component (ambient plus temperature rise) not exceed its operating temperature. To determine the approximate temperature rise of the transformer, refer to the graphs below.

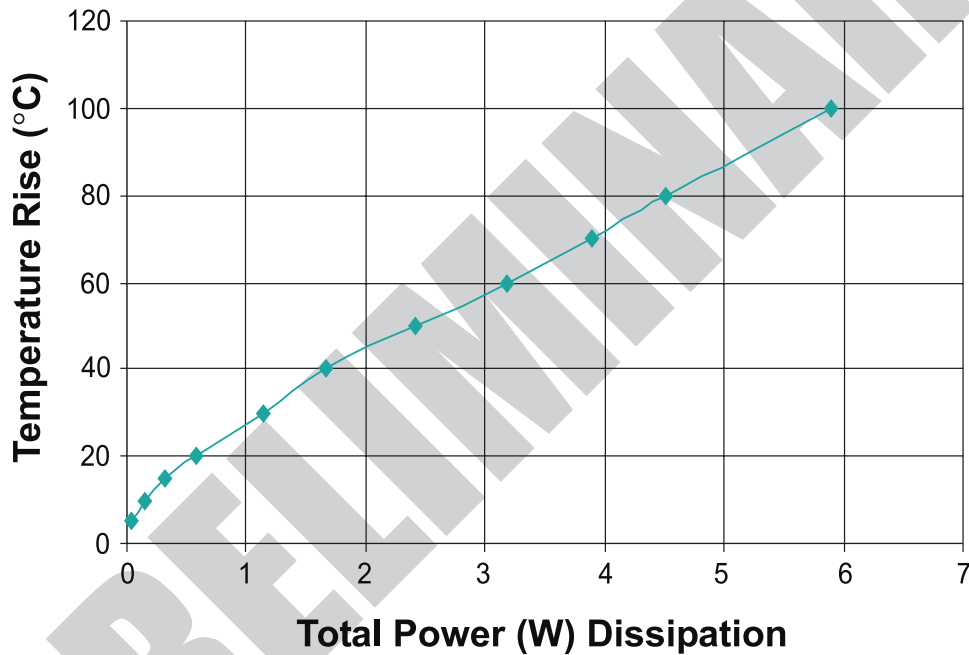
Core Loss vs Flux Density



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Temperature Rise vs. Power (W) Dissipation



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