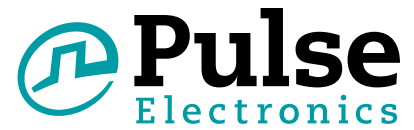


High Frequency Batcore Planar Transformer

ER25+ (up to 800W)



-  **Power Rating:** up to 800W
-  **Height:** 18.3mm Max
-  **Footprint:** 33.5mm x 26.8mm Max
-  **Frequency Range:** 200kHz to 700kHz
-  **Isolation (Primary to Secondary):** 1500VDC
-  **Patent pending**

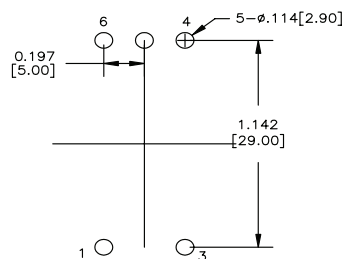
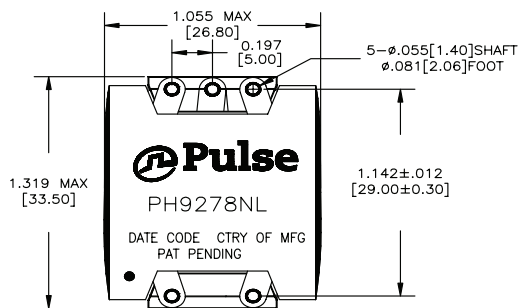
Electrical Specifications @ 25°C - Operating Temperature -40°C to +125°C

Part Number	Turns Ratio			Primary Inductance (μ H MIN)	Leakage Inductance (μ H MAX)	DCR (m Ω MAX)		
	Primary	Secondary A	Secondary B			Primary	Secondary A	Secondary B
PH9278NL	3T	3T	3T	37.8	0.12	2.4	2.4	2.4

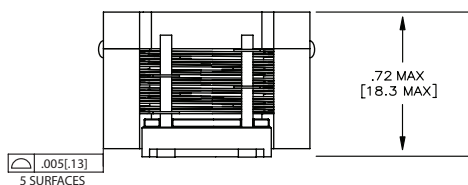
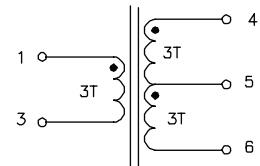
Mechanical

Schematic

PH9278NL



SUGGESTED LAND PATTERN



Weight 45 grams
Tray 30/tray
Tape & Reel 45/reel

Dimensions: Inches
mm

Unless otherwise specified,
all tolerances are $\pm .010$
0.25

USA 858 674 8100

Germany 49 7032 7806 0

Singapore 65 6287 8998

Shanghai 86 21 62787060

China 86 755 33966678

Taiwan 886 3 4356768

High Frequency Batcore Planar Transformer

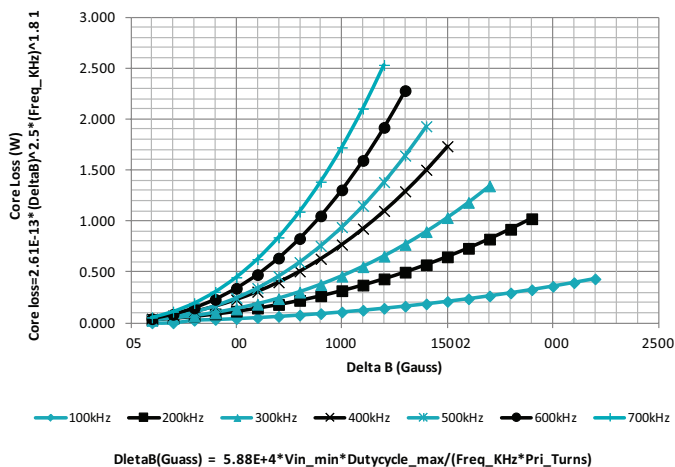
ER25+ (up to 800W)

Notes

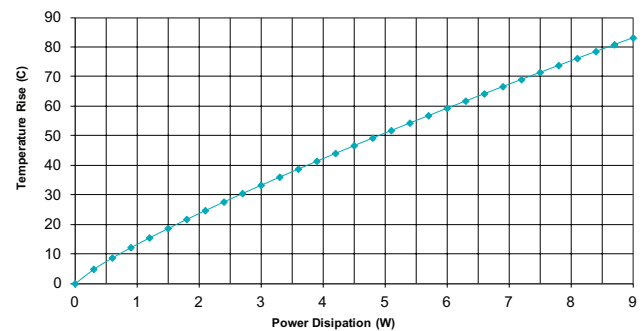
PH9278NL

1. Leakage inductance is measured on winding (1-3) with (4,5,6) shorted.
2. The "NL" suffix indicates a ROHS-compliant part number.
3. Other primary and secondary turns are available on request.
4. Optional Tape & Reel packaging can be ordered by adding a "T" suffix to the complete number (e.g. PH9278NL becomes PH9278NLT).
5. 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



Temperature Rise vs. Power Dissipation



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