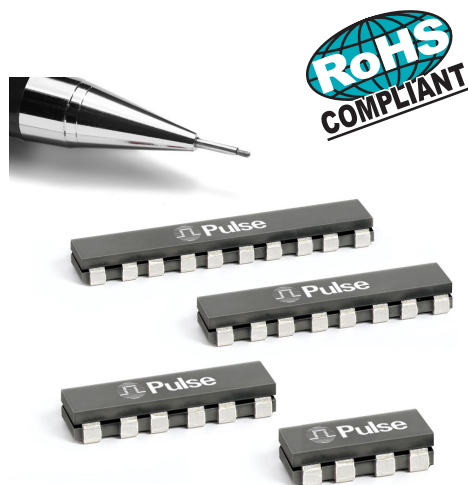


Pulse
Electronics



- Gen 1.0 Coupled Inductors (2,3,4 and 5 phases)
- For use only with Volterra chipsets
- Coupled Inductors enable:
 - Phase ripple current reduction due to AC magnetic field cancellation within the inductor core
 - Improved efficiency due to lower peak currents
 - Reduction in required output capacitance
- Halogen Free

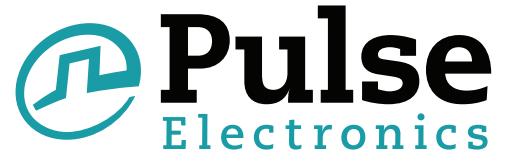
Pulse Part No.	Number of Coupled Phases	Equivalent ¹ Transient Inductance per Phase (nH ±20%)	Rated ² per Phase (Adc)	Open Circuit Ind. per Phase ³ nH ±20%, 0Adc					Open Circuit Ind. per Phase ³ nH Min, 5Adc					DCR/Phase ⁴ (mΩ)	
				L1	L2	L3	L4	L5	L1	L2	L3	L4	L5	TYP	MAX
				(1-2)	(3-4)	(5-6)	(7-8)	(9-10)	(1-2)	(3-4)	(5-6)	(7-8)	(9-10)	0.425	0.5
PA1312NL	2	50	40	310	310	–	–	–	240	240	–	–	–		
PA1313NL	3	50	40	370	450	370	–	–	285	350	285	–	–		
PA1314NL	4	50	40	370	490	490	370	–	285	385	385	285	–		
PA1315NL	5	50	40	370	470	490	470	390	285	365	385	365	285		

4. The nominal value of DCR/phase is for reference only. For production testing, the maximum limit is used.

Figure 10: TAPE & REEL LAYOUT. This technical drawing shows the layout of a tape and reel. It includes dimensions for the tape width (.732 / 18.60), the distance between reels (.217 / 5.50), the distance between reel centers (.366 / 9.30), and the distance between reel edges (.630 / 16.00). The reel width is .559 / 14.20. The total width is 1.260, with a tolerance of .012 / 32.00 = 0.30. The layout is labeled "TAPE & REEL LAYOUT" and "USER DIRECTION OF FEED".

SMT POWER INDUCTORS

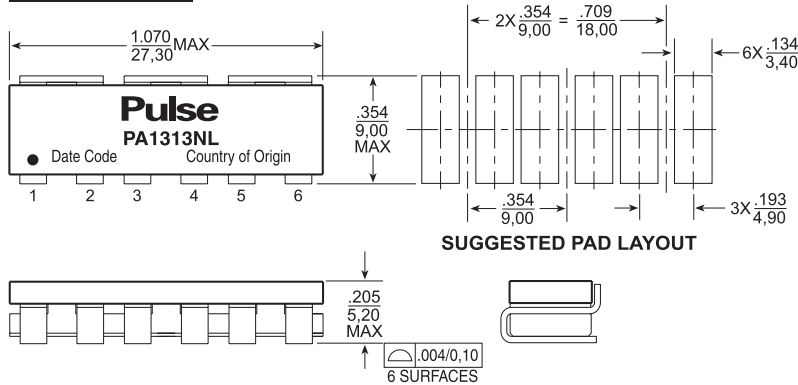
Power Beads - PA131xNL Series Coupled Inductors



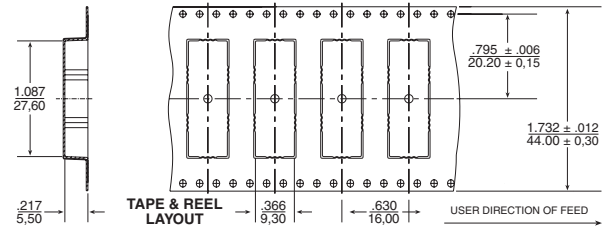
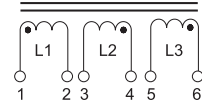
Mechanical

Schematic

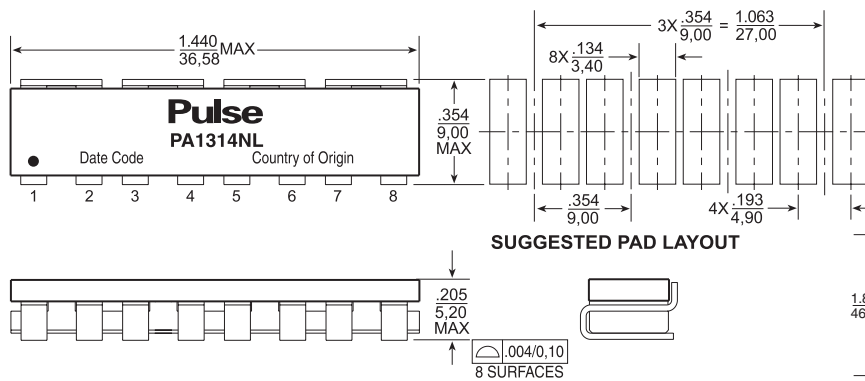
PA1313NL



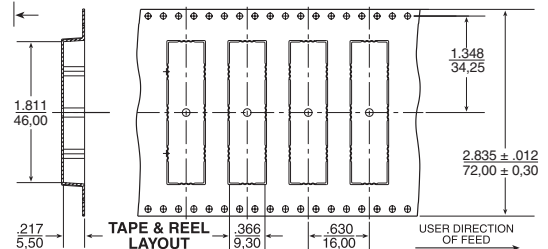
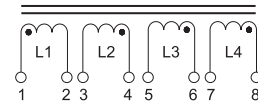
Weight 4.5 grams
Tape & Reel ... 650/reel
Tray 45/tray



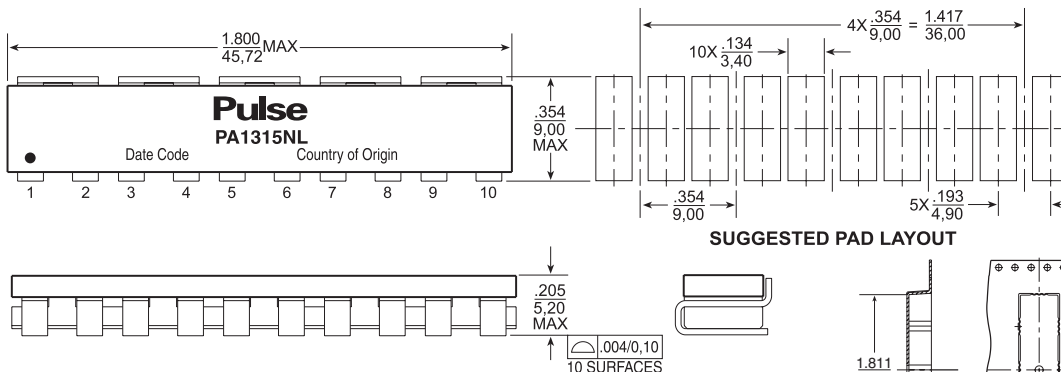
PA1314NL



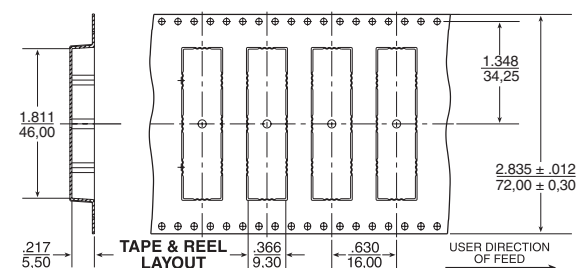
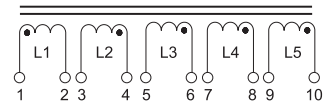
Weight 4.5 grams
Tape & Reel ... 550/reel
Tray 30/tray



PA1315NL



Weight 7.5 grams
Tape & Reel ... 500/reel
Tray 30/tray



All Part Numbers

Dimensions: $\frac{\text{Inches}}{\text{mm}}$

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 54643211 / 2 • China 86 755 33966678 • Taiwan 886 3 4641811