Power Beads - PA2080NL, PA1894NL, PA2150NL, and PA2125NL Series







- Desktop/Server Vcore Inductors
- **DCR Tolerance:** ±4%
- **Current Rating:** Over 80Apk
- **Inductance Range:** 140μH to 470μH

Electrical Specifications @ 25°C - Operating Temperature -40°C to +130°C ⁷							
Part Number	Inductance @ 0A ₅c (nH ±10%)	Inductance @ Irated (nH TYP)	Irated ¹ (A _{DC})	DCR² (mΩ)	Saturation Current ³ (A TYP)		Heating ⁴ Current
					25°C	100°C	(A TYP)
PA2080NL Series - 10	.5mm x 7.5mm x 8.9mi	m MAX					
PA2080.141NL *	140	140	40	- 0.49 ±4.1%	85	>80	40
PA2080.161NL	165	160	40		70	60	
PA2080.191NL *	185	182	40		65	55	
PA2080.221NL	215	207	40		55	50	
PA1894NL Series - 10.	0mm x 9.0mm x 10.0n	nm MAX					
PA1894.191NL	185	185	35	0.64 ±4.6%	69	55	35
PA1894.221NL *	220	220	35		63	51	
PA1894.271NL	250	250	35		53	46	
PA1894.331NL *	335	268	35		40	35	
PA2150NL Series - 11.	8mm x 9.0mm x 9.2mn	n MAX					
PA2150.181NL *	180	180	37	0.50 ±4.0%	74	67	37
PA2150.231NL	235	235	37		56	50	
PA2150.261NL *	270	270	37		52	44	
PA2150.371NL	370	296	36		36	32	
PA2150.471NL *	470	376	27		27	25	
PA2125NL Series - 15.	9mm x 9.0mm x 9.2mr	n MAX					
PA2125.251NL *	250	250	34	0.62 ±6.5%	68	63	34
PA2125.281NL *	285	285	34		66	56	
PA2125.331NL *	335	335	34		56	50	
PA2125.361NL	360	360	34		52	46	
PA2125.441NL	440	440	34		42	38	

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

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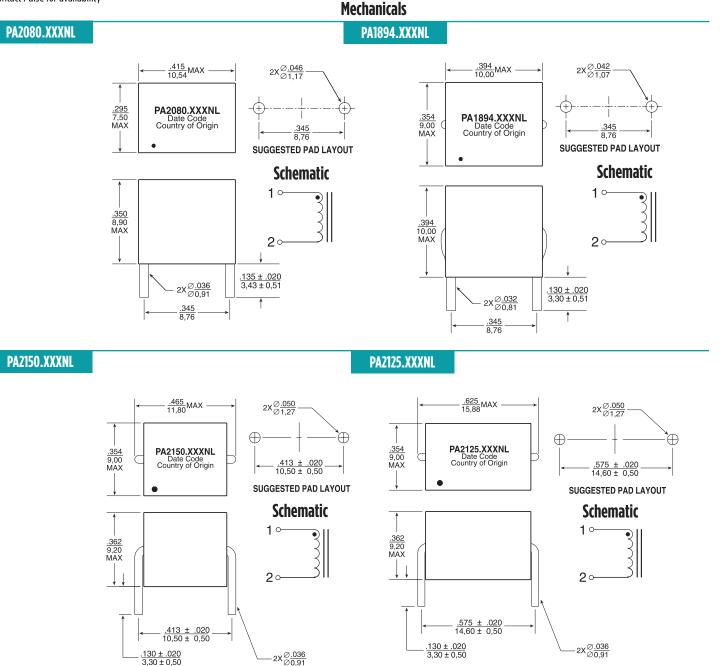
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Notes:

- 1. The rated current as listed is either the saturation current or the heating current depending on which value is lower.
- 2. The saturation current is the typical current which causes the inductance to drop by 20% at the stated ambient temperatures (25°C and 100°C). This current is determined by placing the component in the specified ambient environment and applying a short duration pulse current (to eliminate self-heating effects) to the component.
- 3. The heating current is the DC current which causes the part temperature to increase by approximately 40°C.

- Pulse Electronics
- 4. In high volt*time applications, additional heating in the component can occur due to core losses in the inductor which may necessitate derating the current in order to limit the temperature rise of the component. To determine the approximate total losses (or temperature rise) for a given application, the coreloss and temperature rise curves can be used.
- 5. The temperature of the component (ambient plus temperature rise) must be within the stated operating temperature range.

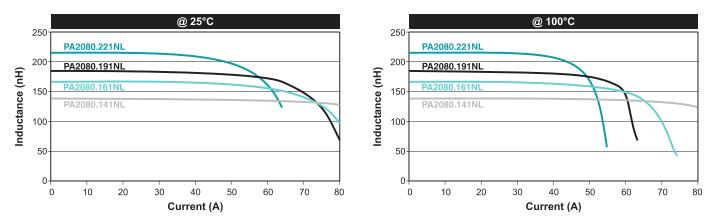
*Contact Pulse for availability



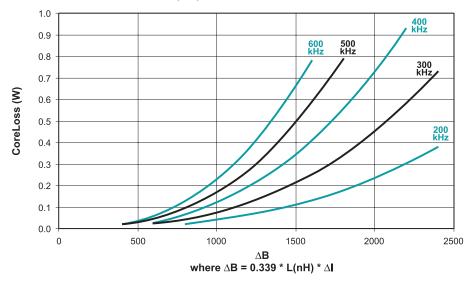
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Typical Inductance vs DC Bias for PA2080.XXXNL Series





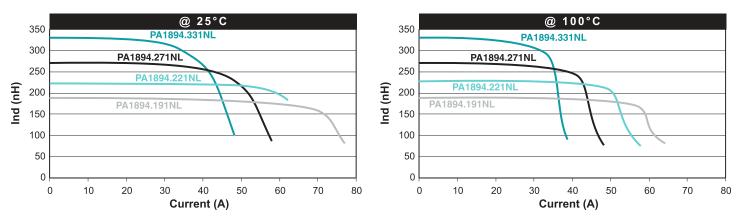




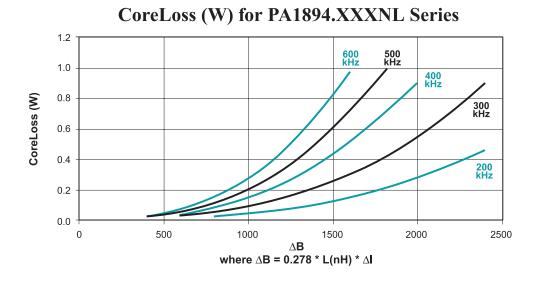


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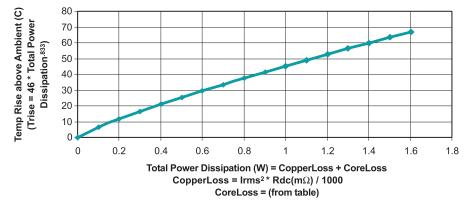




Lvsl for PA1894.XXXNL Series



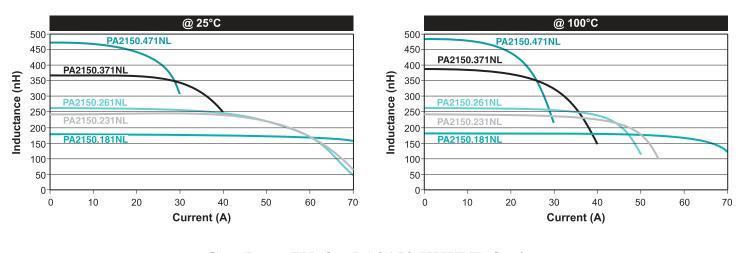


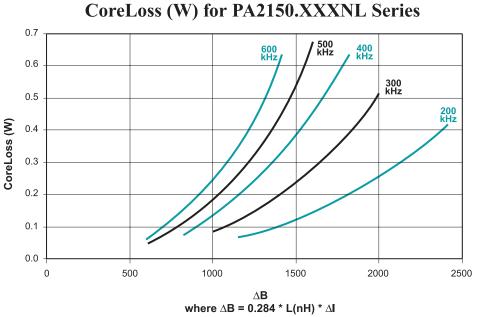


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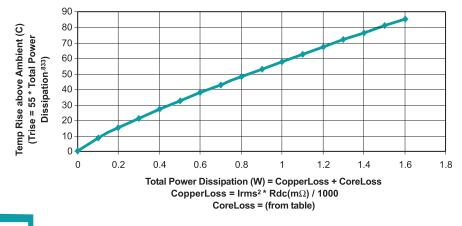


Typical Inductance vs DC Bias for PA2150.XXXNL Series

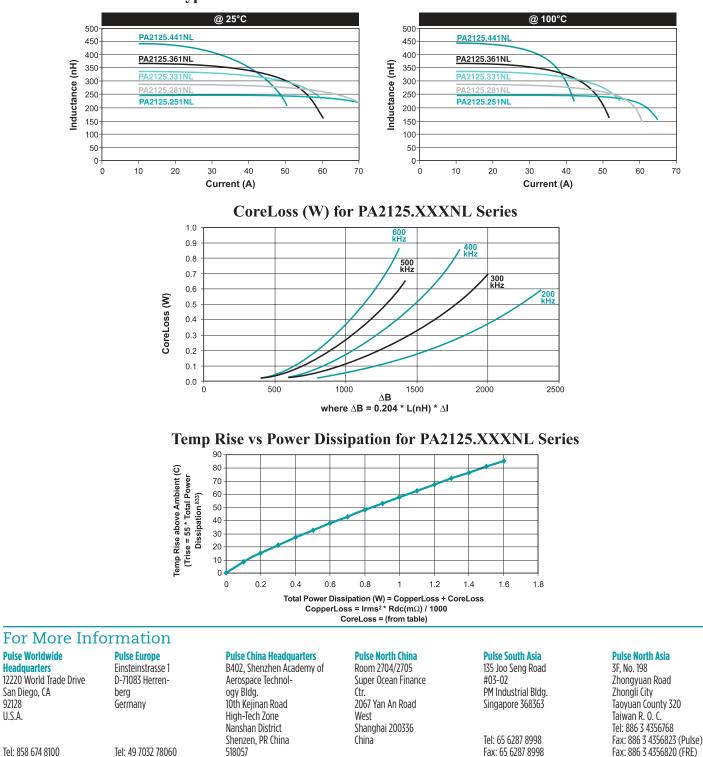








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Typical Inductance vs DC Bias for PA2125.XXXNL Series

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