

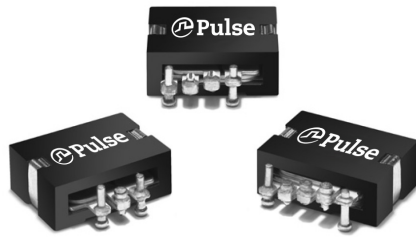


**THE DATASHEET OF
PA1494.442NL**



SMT Power Inductors

Planar - PA1X9XNL Series



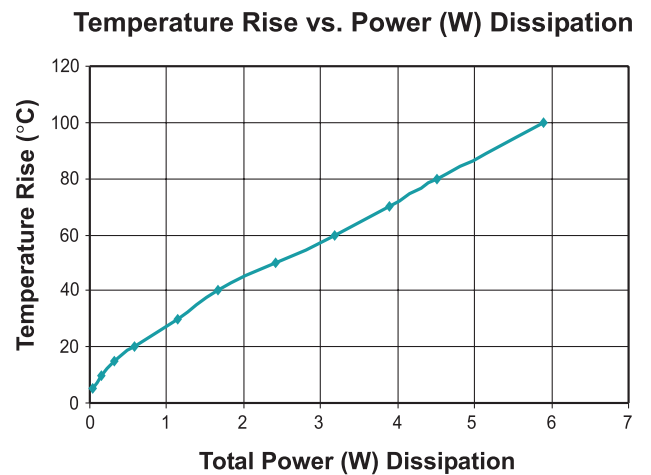
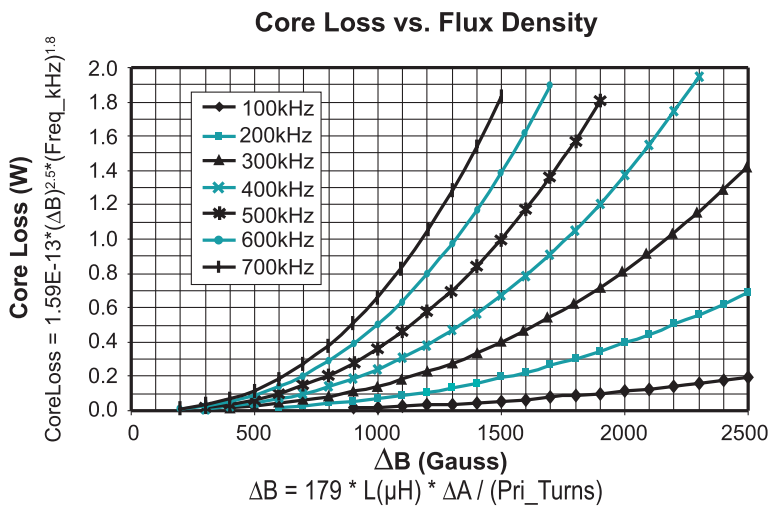
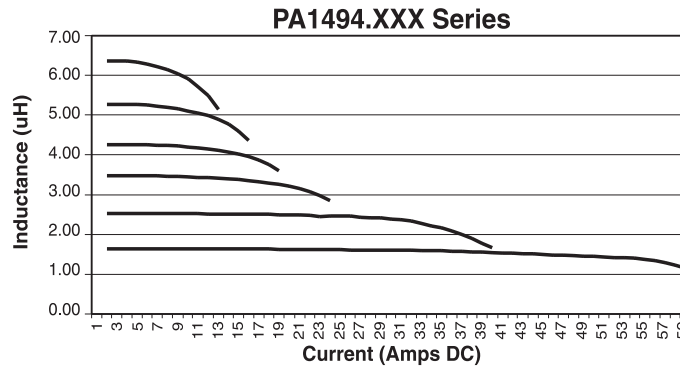
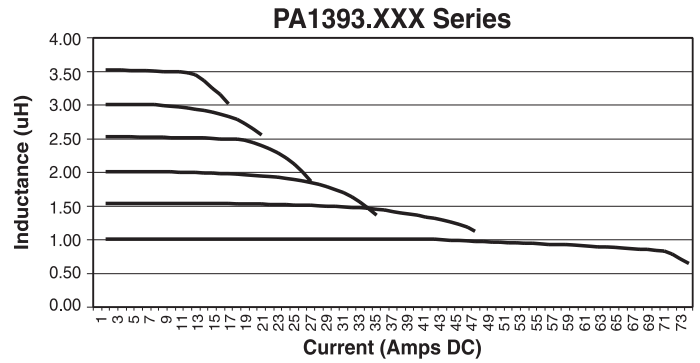
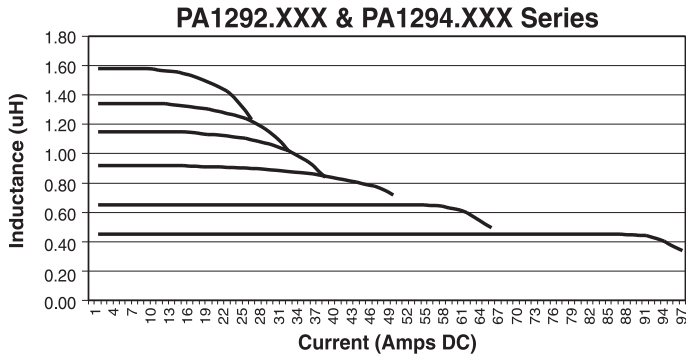
- Height:** 7.4mm
- Footprint:** 19.8mm x 19.6mm Max
- Current Rating:** up to 73A
- Inductance Range:** .405μH to 6.2μH

Electrical Specifications @ 25°C - Operating Temperature -40°C to +130°C⁸

Part ^{5,7} Number	Inductance @ Irated (μH ± 15%)	Irated ¹ (A _{DC})	DCR (mΩ)		Inductance @ 0 A _{DC} (μH ± 15%)	Saturation Current ²		Heating Current ³ (A)
			TYP	MAX		25°C	100°C	
2-Turn (Low-Loss) Series								
PA1294.450NL	0.45	73	.38	.48	0.45	95	80	73
PA1294.650NL	0.63	54	.38	.48	0.65	63	53	73
PA1294.910NL	0.85	39	.38	.48	0.91	46	37	73
PA1294.112NL	1.05	30	.38	.48	1.10	35	30	73
PA1294.132NL	1.25	25	.38	.48	1.30	29	26	73
PA1294.152NL	1.45	21	.38	.48	1.50	24	22	73
2-Turn Series								
PA1292.450NL *	0.45	52	.78	.98	0.45	95	80	52
PA1292.650NL	0.63	52	.78	.98	0.65	63	53	52
PA1292.910NL *	0.85	39	.78	.98	0.91	46	37	52
PA1292.112NL	1.05	30	.78	.98	1.10	35	30	52
PA1292.132NL	1.25	25	.78	.98	1.30	29	26	52
PA1292.152NL *	1.45	21	.78	.98	1.50	24	22	52
3-Turn Series								
PA1393.102NL	0.95	42	1.15	1.43	1.0	68	54	42
PA1393.152NL	1.40	36	1.15	1.43	1.5	43	35	42
PA1393.202NL	1.90	25	1.15	1.43	2.0	29	25	42
PA1393.252NL	2.40	20	1.15	1.43	2.5	23	21	42
PA1393.302NL	2.80	15	1.15	1.43	3.0	18	16	42
PA1393.352NL	3.40	12	1.15	1.43	3.5	15	13	42
4-Turn Series								
PA1494.162NL	1.60	37	1.44	1.80	1.60	55	43	37
PA1494.242NL	2.40	30	1.44	1.80	2.42	35	27	37
PA1494.362NL	3.30	17	1.44	1.80	3.60	20	18	37
PA1494.442NL	4.00	14	1.44	1.80	4.40	16	15	37
PA1494.532NL	4.90	11	1.44	1.80	5.34	13	12	37
PA1494.622NL	5.80	9	1.44	1.80	6.20	11	10	37

Inductance vs. Current Characteristics (25°C)

PA1X9XNL



Total Power Dissipation = Copper Loss (W) + Core Loss (W)

Copper Loss (W) = $\text{Current (rms)}^2 * \text{DCR (m}\Omega) / 1000$
 Core Loss (W) = per table

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