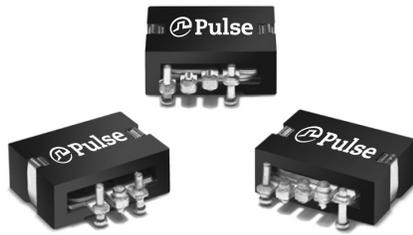


SMT Power Inductors

Planar - PA1X9XNL Series



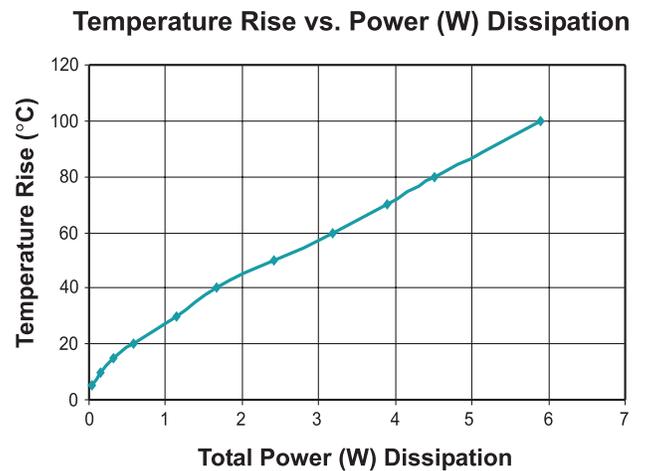
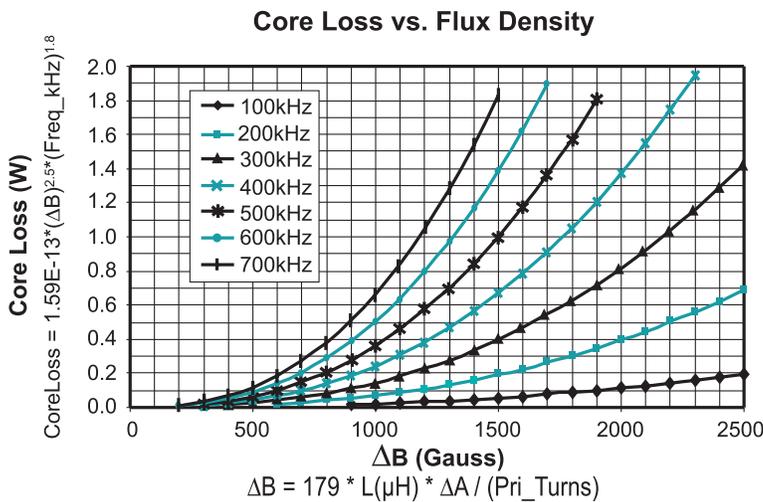
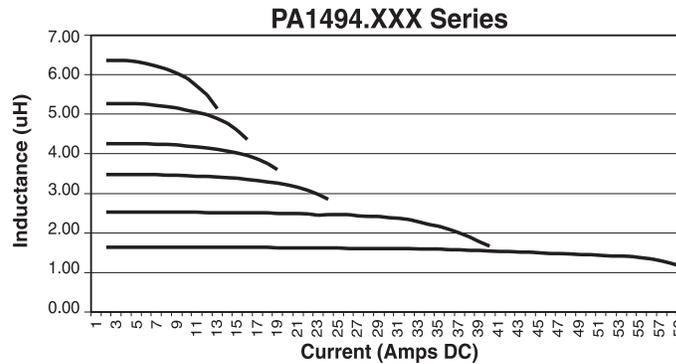
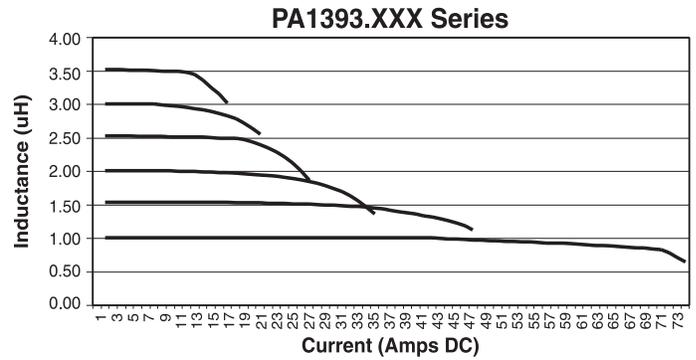
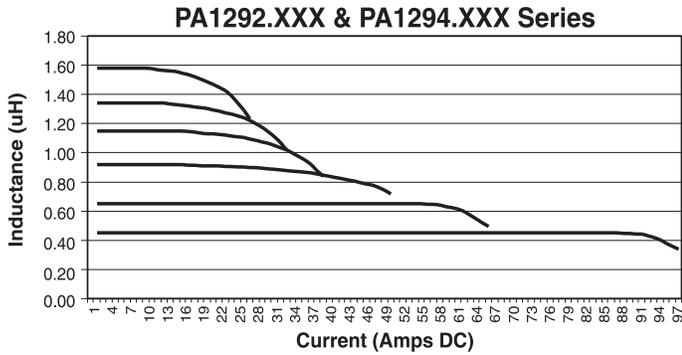
-  **Height:** 7.4mm
-  **Footprint:** 19.8mm x 19.6mm Max
-  **Current Rating:** up to 73A
-  **Inductance Range:** .405μH to 6.2μH

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

SMT Power Inductors

Planar - PA1X9XNL Series



For More Information

Pulse Worldwide Headquarters

15255 Innovation Drive Ste 100
San Diego, CA 92128
U.S.A.

Tel: 858 674 8100
Fax: 858 674 8262

Pulse Europe

Pulse Electronics GmbH
Am Rottland 12
58540 Meinerzhagen
Germany

Tel: 49 2354 777 100
Fax: 49 2354 777 168

Pulse China Headquarters

Pulse Electronics (ShenZhen) CO., LTD
D708, Shenzhen Academy of
Aerospace Technology,
The 10th Keji South Road,
Nanshan District, Shenzhen,
P.R. China 518057

Tel: 86 755 33966678
Fax: 86 755 33966700

Pulse North China

Room 2704/2705
Super Ocean Finance Ctr.
2067 Yan An Road West
Shanghai 200336
China

Tel: 86 21 62787060
Fax: 86 2162786973

Pulse South Asia

3 Fraser Street 0428
DUO Tower
Singapore 189352

Tel: 65 6287 8998
Fax: 65 6280 0080

Pulse North Asia

1F., No.111 Xiyuan Road
Zhongli District
Taoyuan City 32057
Taiwan (R.O.C)

Tel: 886 3 4356768
Fax: 886 3 4356820

Performance warranty of products offered on this data sheet is limited to the parameters specified. Data is subject to change without notice. Other brand and product names mentioned herein may be trademarks or registered trademarks of their respective owners. © Copyright, 2019. Pulse Electronics, Inc. All rights reserved.