

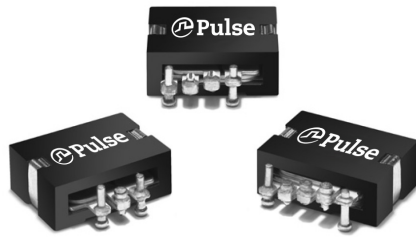


**THE DATASHEET OF
PA1494.162NL**



SMT Power Inductors

Planar - PA1X9XNL Series



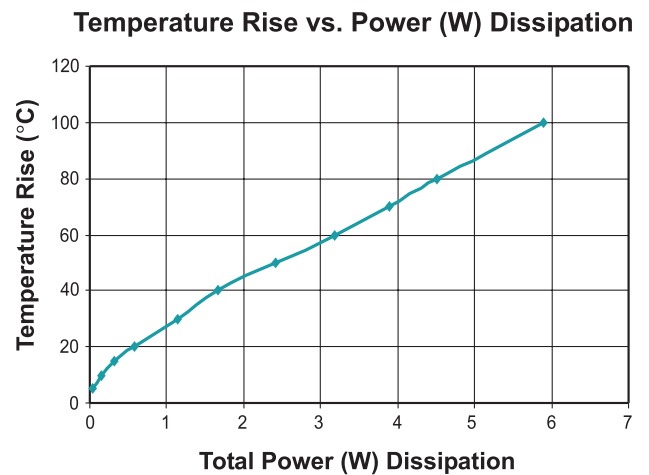
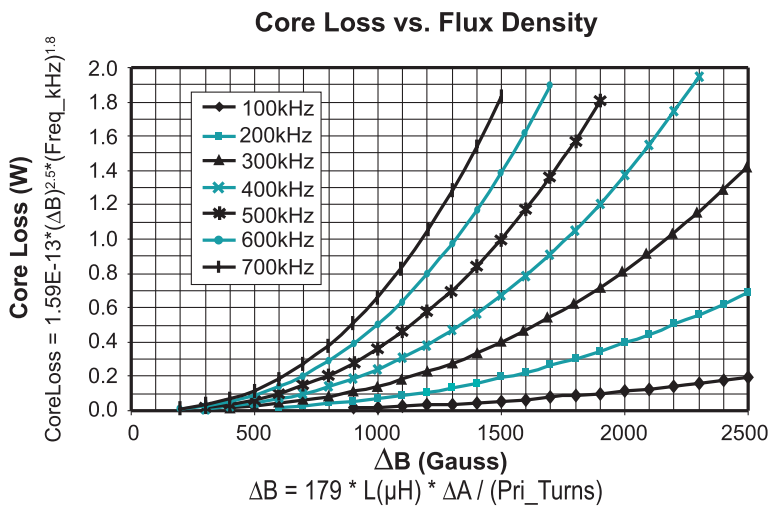
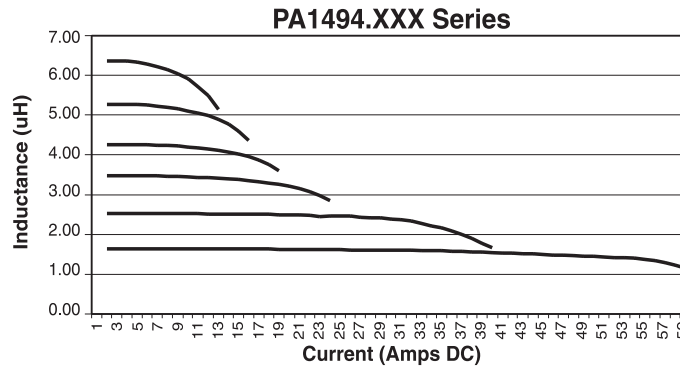
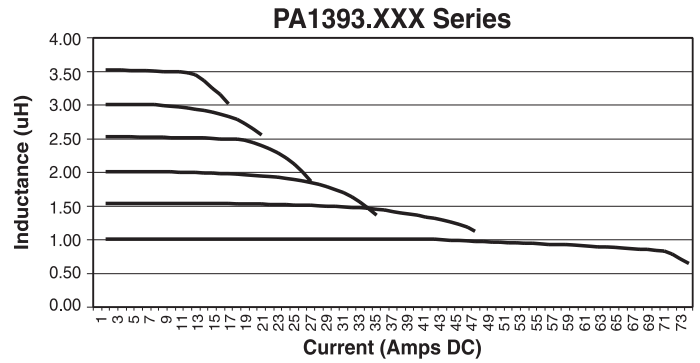
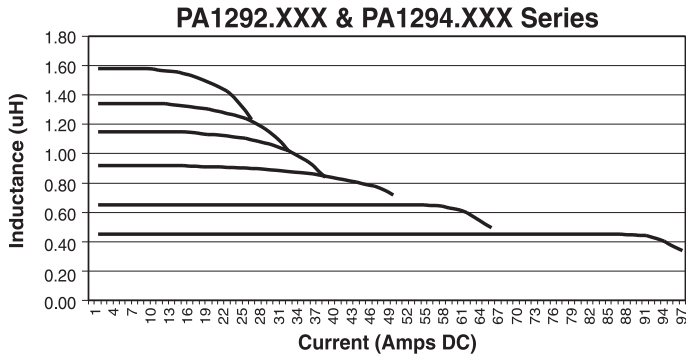
- ⌚ **Height:** 7.4mm
- ⌚ **Footprint:** 19.8mm x 19.6mm Max
- ⌚ **Current Rating:** up to 73A
- ⌚ **Inductance Range:** .405μH to 6.2μH

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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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

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