

# SMT Power Inductors

High Current Molded Power Inductor - PA4340.XXXNLT Series



- Height:** 3.0mm Max
- Footprint:** 6.0mm x 5.4mm Max
- Current Rating:** up to 23A
- Inductance Range:** 0.10uH to 33uH
- Shielded construction and compact design
- High current, low DCR, and high efficiency
- Minimized acoustic noise and minimized leakage flux
- 200Vdc Isolation between terminal and core

Electrical Specifications @ 25°C - Operating Temperature -55°C to +125°C

Part Number <sup>6</sup>	Inductance <sup>5</sup> 100KHz, 1V  uH±20%	Rated Current  A	DC Resistance		Saturation Current  A
			TYP.	MAX.	
			mΩ	mΩ	
PA4340.101NLT	0.10*	23	2.5	3.0	27
PA4340.151NLT	0.15*	18	2.3	2.7	30
PA4340.201NLT	0.20*	16	2.6	3.2	25
PA4340.221NLT	0.22*	15.5	3.7	4.4	21
PA4340.331NLT	0.33	14	4.3	5.0	18
PA4340.471NLT	0.47	12	6.4	7.4	16
PA4340.561NLT	0.56	10	8.0	10	15
PA4340.681NLT	0.68	8.5	10	12	14
PA4340.821NLT	0.82	8.0	11.5	13	12.5
PA4340.102NLT	1.0	7.0	13	14	11
PA4340.122NLT	1.2	6.5	14	16	11
PA4340.152NLT	1.5	6.0	16	25	10
PA4340.222NLT	2.2	5.5	25	35	9.0
PA4340.332NLT	3.3	5.0	32	38	8.0
PA4340.472NLT	4.7	4.6	50	53	6.0
PA4340.562NLT	5.6	4.25	55	63	4.5
PA4340.682NLT	6.8	4.0	68	76.2	4.3
PA4340.103NLT	10	2.75	110	128	3.5
PA4340.153NLT	15	2.1	165	190	2.6
PA4340.183NLT	18	2.0	195	230	2.3
PA4340.223NLT	22	1.9	220	250	1.7
PA4340.333NLT	33	1.6	380	440	1.6

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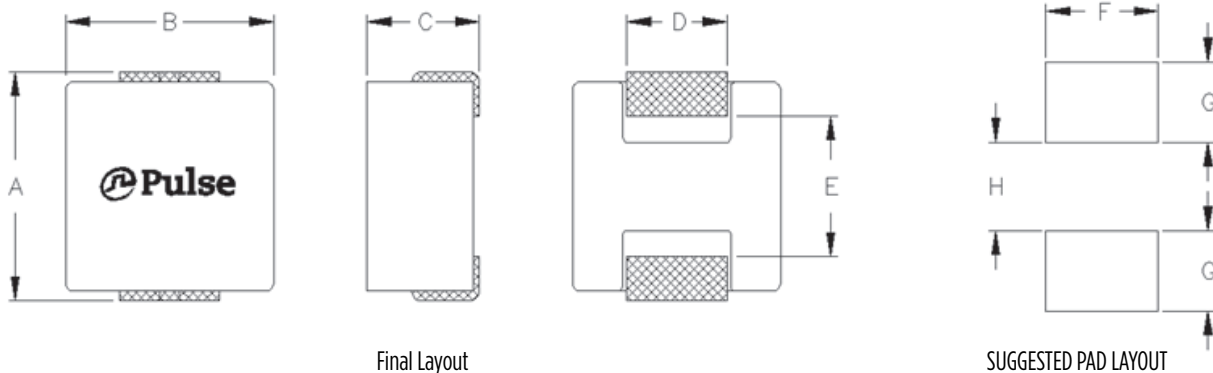


## Notes:

1. Actual temperature of the component during system operation (ambient plus temperature rise) must be within the standard operating range.
2. The saturation current is the current at which the initial inductance drops approximately 30% at the stated ambient temperature. This current is determined by placing the component in the specified ambient environment and applying a short duration pulse current (to eliminate self-heating effect) to the component.
3. The rated current is the DC current required to raise the component temperature by approximately 40 °C. Take note that the components' performance varies depending on the system condition. It is suggested that the component be tested at the system level, to verify the temperature rise of the component during system operation.
4. The part temperature (ambient+temp rise) should not exceed 125 °C under worst case operating conditions. Circuit design, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
5. Please note that the inductance tolerance of all parts are ±20% except .101NLT, .151NLT, .201NLT and .221NLT which are ±30%.
6. Parts shown in bold are standard catalog parts and are available through sample stock and distribution. Parts in lighter font are available but are not necessarily held in sample stock or distribution **and lead times may be longer**. Please contact Pulse for availability.

## Mechanical

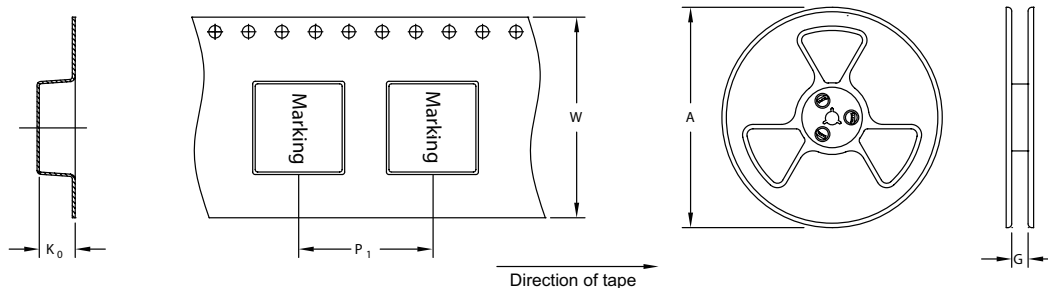
### PA4340.XXXNLT



Series	A	B	C	D	E	F	G	H
PA4340.XXXNLT	6.0 MAX	5.4 MAX	3.0 MAX	(1.5)	3.5 MAX	(1.8)	(2.0)	(2.5)

All Dimensions in mm.

## TAPE & REEL INFO



### SURFACE MOUNTING TYPE, REEL/TAPE LIST

	REEL SIZE (mm)		TAPE SIZE (mm)			QTY
	A	G	P <sub>1</sub>	W	K <sub>0</sub>	PCS/REEL
PA4340.XXXNLT	Ø330	12	8	12	3.3	2000

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## 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 Rd  
Zhongli City  
Taoyuan City 32057  
Taiwan (R.O.C)

Tel: 886 3 4356768  
Fax: 886 3 4356820

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