

SMT Power Inductors

High Current Molded Power Inductor - PA4341.XXXNLT Series



-  **Height:** 3.0mm Max
-  **Footprint:** 7.6mm x 6.9mm Max
-  **Current Rating:** up to 32.5A
-  **Inductance Range:** 0.1uH to 47.0uH
-  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 ⁶	Inductance ⁵ 100KHz, 1V (uH ±20%)	Rated Current A	DC Resistance		Saturation Current A
			TYP.	MAX.	
			mΩ	mΩ	
PA4341.101NLT	0.10*	32.5	1.2	1.7	60
PA4341.151NLT	0.15*	27	1.5	1.9	45
PA4341.161NLT	0.16*	27	1.5	1.9	45
PA4341.201NLT	0.20*	24	1.8	2.5	41
PA4341.221NLT	0.22*	23	2.1	2.8	40
PA4341.301NLT	0.30	21	3.2	3.8	35
PA4341.331NLT	0.33	20	3.5	3.9	32
PA4341.361NLT	0.36	19	3.6	4.2	32
PA4341.471NLT	0.47	17.5	4.0	4.2	26
PA4341.561NLT	0.56	16.5	4.7	5.0	25.5
PA4341.601NLT	0.60	16	4.7	5.2	25.5
PA4341.681NLT	0.68	15.5	4.8	5.5	25
PA4341.751NLT	0.75	14.5	5.5	6.6	24.5
PA4341.821NLT	0.82	13	6.7	8.0	24
PA4341.102NLT	1.0	11	8.3	10	22
PA4341.122NLT	1.2	10	10	12	20
PA4341.152NLT	1.5	9.0	13	15	18
PA4341.182NLT	1.8	8.5	14	17	16
PA4341.202NLT	2.0	8.2	16	19	15
PA4341.222NLT	2.2	8.0	18	20	14
PA4341.252NLT	2.5	7.0	20	22	13
PA4341.332NLT	3.3	6.0	28	30	13.5
PA4341.472NLT	4.7	5.5	37	40	10

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

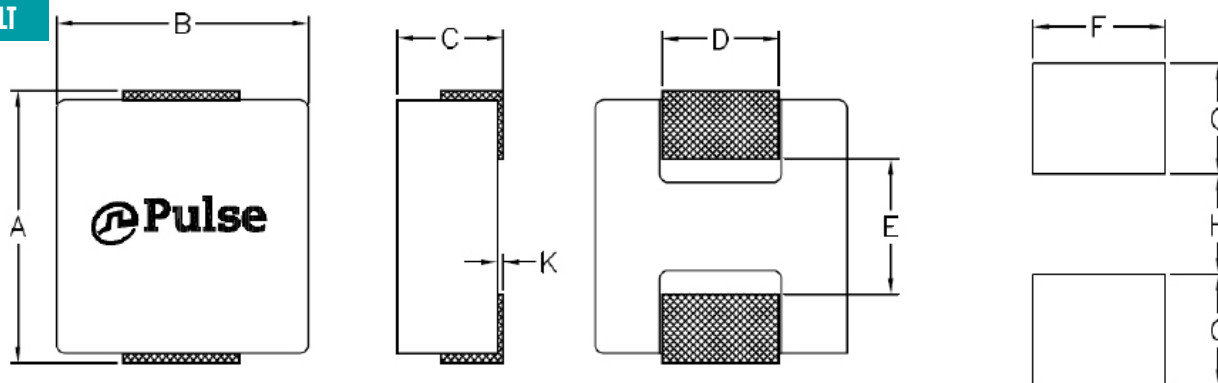
Part Number ⁶	Inductance ⁵ 100KHz, 1V ($\mu\text{H} \pm 20\%$)	Rated Current A	DC Resistance		Saturation Current A
			TYP.	MAX.	
			m Ω	m Ω	
PA4341.562NLT	5.6	5.0	43	48	9.0
PA4341.682NLT	6.8	4.5	54	60	8.0
PA4341.822NLT	8.2	4.0	64	68	7.5
PA4341.103NLT	10	3.5	75	85	6.0
PA4341.123NLT	12	3.3	81	93	5.5
PA4341.153NLT	15	3.0	107	123	4.0
PA4341.223NLT	22	2.0	165	190	3.5
PA4341.333NLT	33	2.0	200	240	2.5
PA4341.473NLT	47	1.75	302	363	2.0

Notes:

- Actual temperature of the component during system operation (ambient plus temperature rise) must be within the standard operating range.
- 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.
- 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.
- 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.
- Please note that the inductance tolerance of all parts are $\pm 20\%$, except .101NLT, .151NLT, .161NLT, .201NLT, and .221NLT which are $\pm 30\%$.
- 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

PA4341.XXXNLT



FINAL LAYOUT

SUGGESTED PAD LAYOUT

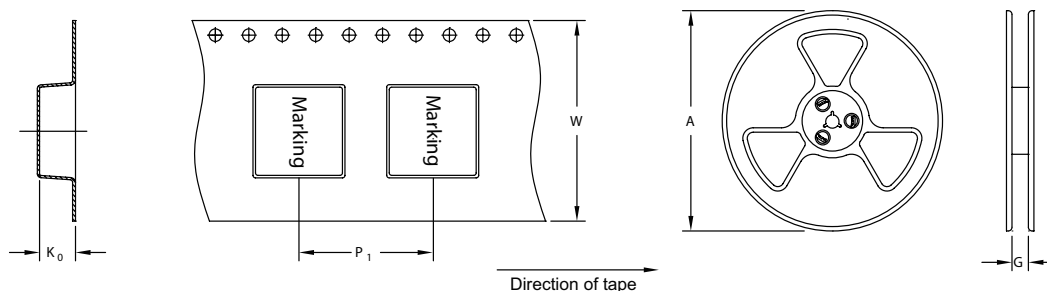
Series	A	B	C	D	E	F	G	H	K
PA4341.XXXNLT	7.6 MAX	6.9 MAX	3.0 MAX	(3.0)	(3.7)	(3.5)	(2.95)	(2.5)	(0-0.22)

All Dimensions in mm.

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TAPE & REEL INFO



SURFACE MOUNTING TYPE, REEL/TAPE LIST						
	REEL SIZE (mm)		TAPE SIZE (mm)			QTY
	A	G	P ₁	W	K ₀	PCS/REEL
PA4341.XXXNLT	Ø330	16	12	16	3.3	1000

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