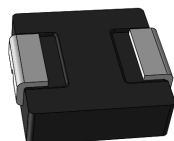









# SMT Power Inductors

High Current Molded Power Inductor - PA4546.XXXNLT Series



-  **Height:** 1.2mm Max
-  **Footprint:** 4.7mm x 4.31mm Max
-  **Current Rating:** up to 11.5A
-  **Inductance Range:** 0.10uH to 22uH
-  High current, low DCR, and high efficiency
-  High reliability
-  Minimized acoustic noise and minimized leakage flux noise

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

Part Number <sup>6</sup>	Inductance <sup>5</sup> 100KHz, 1.0V uH±20%	Rated Current A	DC Resistance		Saturation Current A
			TYP.	MAX.	
			mΩ	mΩ	
PA4546.101NLT	0.10*	11.5	4.3	5.5	25
PA4546.151NLT	0.15*	10.0	5.5	6.8	21.5
PA4546.221NLT	0.22	8.5	6.6	8.0	20
PA4546.331NLT	0.33	7.0	13.6	16	11
PA4546.361NLT	0.36	6.5	15.5	18	8.5
PA4546.471NLT	0.47	6.0	18.0	20	6.5
PA4546.601NLT	0.60	5.3	22.5	26	6.0
PA4546.681NLT	0.68	5.0	32	37	6.0
PA4546.822NLT	0.82	4.5	38	44	6.0
PA4546.102NLT	1.00	4.0	41	47	6.0
PA4546.122NLT	1.20	3.5	48	56	5.0
PA4546.152NLT	1.50	3.0	55	63.3	4.0
PA4546.222NLT	2.20	2.8	69.2	80	3.5
PA4546.332NLT	3.30	2.3	84	97	3.0
PA4546.472NLT	4.70	2.0	128	145	2.5
PA4546.562NLT	5.60	1.7	180	208	2.3
PA4546.682NLT	6.80	1.5	300	360	1.7
PA4546.822NLT	8.20	1.4	313	376	1.6
PA4546.103NLT	10	1.3	410	463	1.4
PA4546.153NLT	15	1.05	550	610	1.2
PA4546.183NLT	18	0.9	860	960	1.1
PA4546.223NLT	22	0.8	950	1050	1.0

# SMT Power Inductors

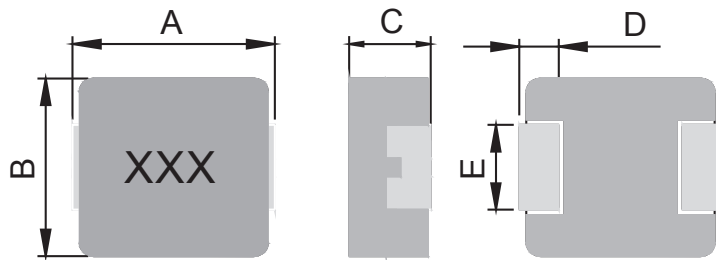
High Current Molded Power Inductor - PA4546.XXXNLT Series

## Notes:

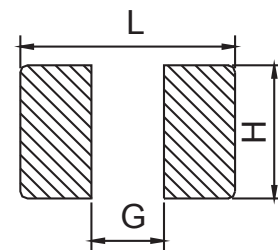
1. Actual temperature of the component during system operation (ambient plus temperature rise) must be within the standard operating range.
2. The saturation current is the current at which the initial inductance drops approximately 30% at the stated ambient temperature. This current is determined by 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  $\pm 20\%$ , except .101NLT and .151NLT which are  $\pm 30\%$ .
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

### PA4546.XXXNLT



FINAL LAYOUT

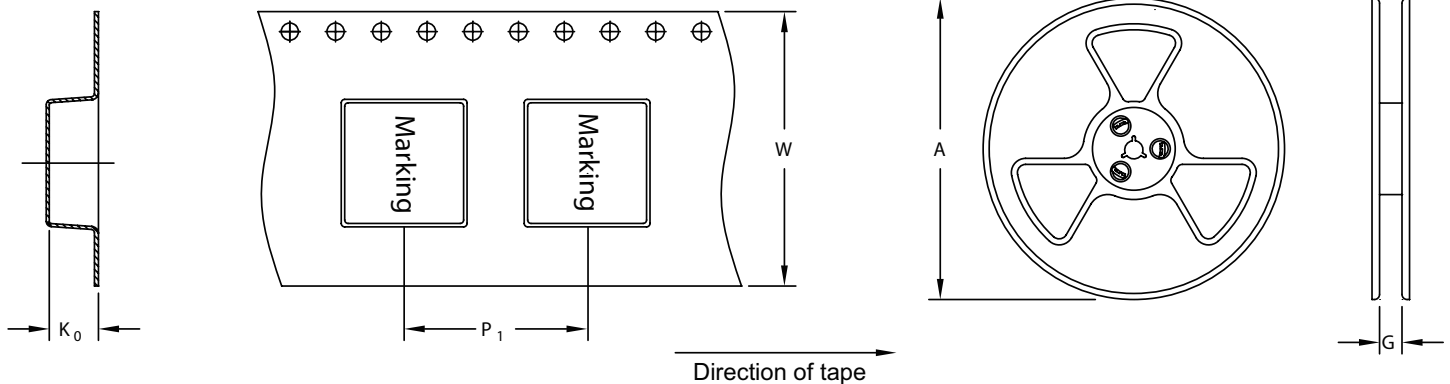


SUGGESTED PAD LAYOUT

Series	A	B	C	D	E	L	G	H
PA4546.XXXNLT	4.45 $\pm$ 0.25	4.06 $\pm$ 0.25	1.0 $\pm$ 0.2	0.76 $\pm$ 0.30	2.0 $\pm$ 0.20	5.2	2.2	2.3

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>	
PA4546.XXXNLT	Ø330	12.4	8	12	1.5	4000

# SMT Power Inductors

High Current Molded Power Inductor - PA4546.XXXNLT Series



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# Mouser Electronics

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