

PA4345.101NLT Datasheet

www.digi-electronics.com



DiGi Electronics Part Number	PA4345.101NLT-DG
Manufacturer	Pulse Electronics
Manufacturer Product Number	PA4345.101NLT
Description	FIXED IND 100NH 18A 4 MOHM SMD
Detailed Description	100 nH Shielded Molded Inductor 18 A 4mOhm Ma x Nonstandard

https://www.DiGi-Electronics.com



Tel: +00 852-30501935

RFQ Email: Info@DiGi-Electronics.com

DiGi is a global authorized distributor of electronic components.



Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
PA4345.101NLT	Pulse Electronics
Series:	Product Status:
PA4345.XXXNLT	Active
Туре:	Material - Core:
Molded	
Inductance:	Tolerance:
100 nH	±20%
Current Rating (Amps):	Current - Saturation (Isat):
18 A	45A
Shielding:	DC Resistance (DCR):
Shielded	4mOhm Max
Q @ Freq:	Frequency - Self Resonant:
Ratings:	Operating Temperature:
	-55°C ~ 125°C
Inductance Frequency - Test:	Features:
100 kHz	
Mounting Type:	Package / Case:
Surface Mount	Nonstandard
Supplier Device Package:	Size / Dimension:
-	0.236" L x 0.213" W (6.00mm x 5.40mm)
Height - Seated (Max):	
0.079" (2.00mm)	

Environmental & Export classification

RoHS Status:	Moisture Sensitivity Level (MSL):
ROHS3 Compliant	1 (Unlimited)
REACH Status:	ECCN:
REACH Unaffected	EAR99
HTSUS:	
8504.50.8000	

High Current Molded Power Inductor - PA4345.XXXNLT & PM4345.XXXNLT Series





- *Height:* 2.0mm Max
- *Footprint:* 6mm x 5.4mm Max
- *Current Rating:* up to 43.0A
- *Inductance Range:* 0.15*u*H to 68.0*u*H
- Shielded construction and compact design
- *It is a the set of th*
- Ø Minimized acoustic noise and minimized leakage flux
- @ 200Vdc Isolation between terminal and core

Electrical Specifications @ 25°C - Operating Temperature -55°C to +125°C						
		© Inductance⁵	Rated ³	DC Resistance		Saturation ²
Commercial ^{6,7} Automotive ^{6,7}	100KHz, 1V	Current	TYP.	MAX.	Current	
		uH±20%	A	mΩ	mΩ	A
PA4345.101NLT	PM4345.101NLT	0.10*	18.0	3.6	4.0	45.0
PA4345.121NLT	PM4345.121NLT	0.12*	17.0	3.7	4.3	35.0
PA4345.151NLT	PM4345.151NLT	0.15*	16.0	3.8	4.6	27.0
PA4345.221NLT	PM4345.221NLT	0.22	15.0	4.0	5.5	25.0
PA4345.241NLT	PM4345.241NLT	0.24	13.0	6.0	7.0	23.0
PA4345.331NLT	PM4345.331NLT	0.33	12.0	6.3	7.3	21.3
PA4345.361NLT	PM4345.361NLT	0.36	11.8	6.8	7.8	20.0
PA4345.471NLT	PM4345.471NLT	0.47	11.5	7.3	8.6	18.0
PA4345.561NLT	PM4345.561NLT	0.56	10.7	9.3	11.2	15.0
PA4345.681NLT	PM4345.681NLT	0.68	10.0	11.0	12.4	12.8
PA4345.821NLT	PM4345.821NLT	0.82	8.5	15.0	18.0	14.0
PA4345.102NLT	PM4345.102NLT	1.0	7.0	17.5	20.0	13.7
PA4345.122NLT	PM4345.122NLT	1.2	6.2	23.0	28.0	11.0
PA4345.152NLT	PM4345.152NLT	1.5	5.5	26.5	30.5	9.8
PA4345.222NLT	PM4345.222NLT	2.2	4.2	42.0	50.0	9.0
PA4345.272NLT	PM4345.272NLT	2.7	4.0	50.0	58.0	8.2
PA4345.332NLT	PM4345.332NLT	3.3	3.3	66.0	76.0	7.3
PA4345.472NLT	PM4345.472NLT	4.7	2.8	103	116	5.0
PA4345.562NLT	PM4345.562NLT	5.6	2.5	112	122	4
PA4345.682NLT	PM4345.682NLT	6.8	2.4	130	150	3.8

High Current Molded Power Inductor - PA4345.XXXNLT & PM4345.XXXNLT Series

Pulse

a YAGEO company

Electrical Specifications @ 25°C - Operating Temperature -55°C to +125°C						
		© Inductance⁵	Rated ³	DC Resistance		Saturation ²
Commercial ^{6,7}	Automotive ^{6,7}	100KHz, 1V	Current	TYP.	MAX.	Current
		(uH ±20%)	Α	mΩ	mΩ	A
PA4345.822NLT	PM4345.822NLT	8.2	2.3	148	171	3.5
PA4345.103NLT	PM4345.103NLT	10	2.3	180	199	3.4
PA4345.153NLT	PM4345.153NLT	15	1.9	240	270	2.8
PA4345.223NLT	PM4345.223NLT	22	1.5	350	390	1.8

Notes:

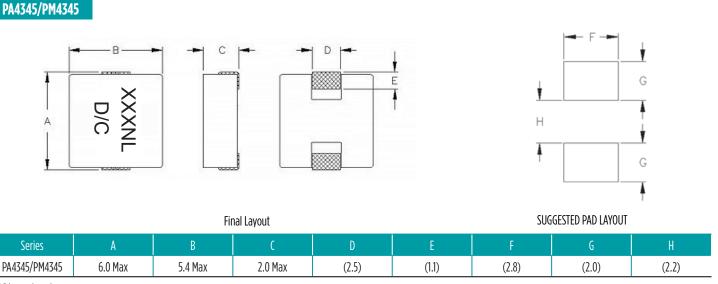
- 1. Actual temperature of the component during system operation (ambient plus temperature rise) must be within the standard operating range.
- The saturation current is the current at which the initial inductance drops approximately 30% at the stated ambient temperature. This current is determined by placing the compnent 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' performanc 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 those indicated with a * 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 availablity.

- 7. The PM part numbers have full automotive IATF16949 certification. The PM part number dimensions are 100% tested in production but do not necessarily meet a product capability index (Cpk) > 1.33 and therefore may not strictly conform to PPAP.
- 8. Special characteristics \bigcirc



Mechanical

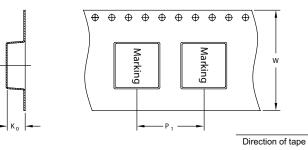
All Dimensions in mm.

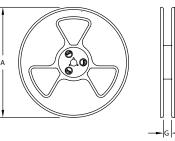
2

High Current Molded Power Inductor - PA4345.XXXNLT & PM4345.XXXNLT Series



TAPE & REEL INFO

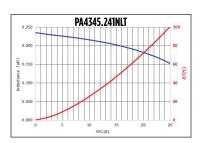


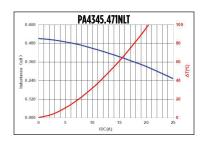


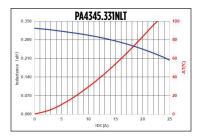
	SURFACE N	10UNTING	TYPE, REE	L/TAPE LIS	T	
	REEL SIZE (mm)		TAPE SIZE (mm)			QTY
	A	G	P ₁	W	K _o	PCS/REEL
PA4345/PM4345	Ø330	12	8	12	2.3	3000

Typical Performance Curves

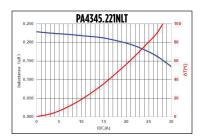
PA4345.XXXNLT and PM4345.XXXNLT

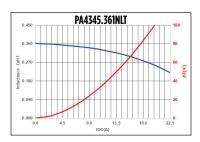


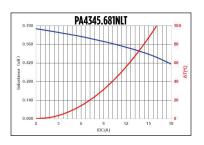




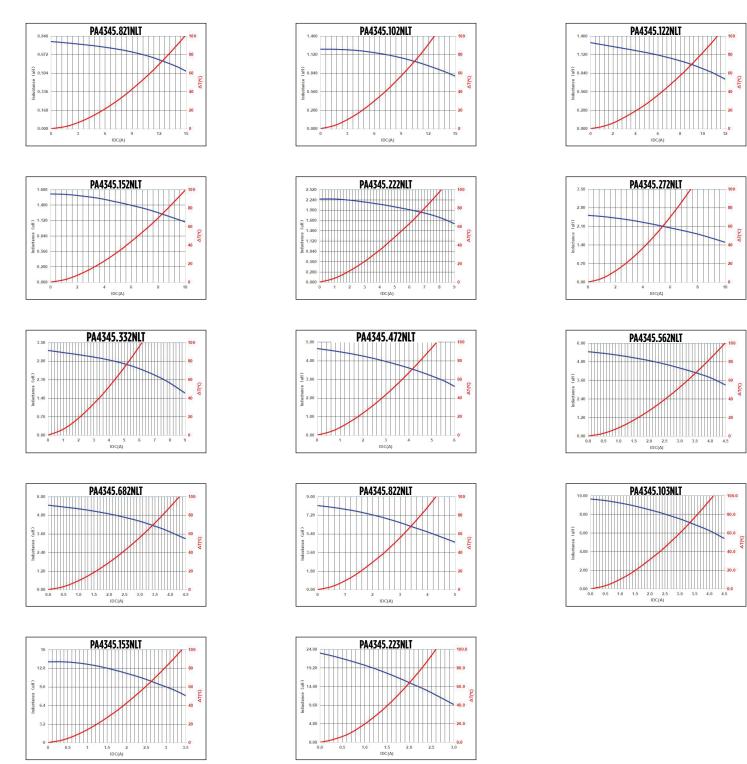








High Current Molded Power Inductor - PA4345.XXXNLT & PM4345.XXXNLT Series



For More Information:

Americas - prodinfo_power_americas@yageo.com | Europe - prodinfo_power_emea@yageo.com | Asia - prodinfo_power_asia@yageo.com

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, 2023. Pulse Electronics, Inc. All rights reserved.

YAGEO Corporation and its affiliates do not recommend the use of commercial or automotive grade products for high reliability applications or manned space flight.

4

PulseElectronics.com

P772.P (08/23)





OUR CERTIFICATE

DiGi provide top-quality products and perfect service for customer worldwide through standardization, technological innovation and continuous improvement. DiGi through third-party certification, we striciy control the quality of products and services. Welcome your RFQ to Email: Info@DiGi-Electronics.com

	<section-header></section-header>		
Marginary Marginary Marginary	Market	Marchine Marchine Image: Control of the sector of the sec	





Tel: +00 852-30501935

RFQ Email: Info@DiGi-Electronics.com

DiGi is a global authorized distributor of electronic components.