

PA5402.822NLT Datasheet

www.digi-electronics.com



https://www.DiGi-Electronics.com

DiGi Electronics Part Number PA5402.822NLT-DG

Manufacturer Pulse Electronics

Manufacturer Product Number PA5402.822NLT

Description FIXED IND 8.2UH 2A 180 MOHM SMD

Detailed Description 8.2 µH Shielded Molded Inductor 2 A 180mOhm Ma

x Nonstandard



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:
PA5402.822NLT	Pulse Electronics
Series:	Product Status:
PA5402	Active
Type:	Material - Core:
Molded	
Inductance:	Tolerance:
8.2 µH	±20%
Current Rating (Amps):	Current - Saturation (Isat):
2 A	2.5A
Shielding:	DC Resistance (DCR):
Shielded	180mOhm 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:
	0.175" L x 0.160" W (4.45mm x 4.06mm)
Height - Seated (Max):	
0.079" (2.00mm)	

Environmental & Export classification

8504.50.4000

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

High Current Molded Power Inductor - PA5402 & PM5402 Series





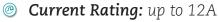












Inductance Range: 0.1 to 22uH

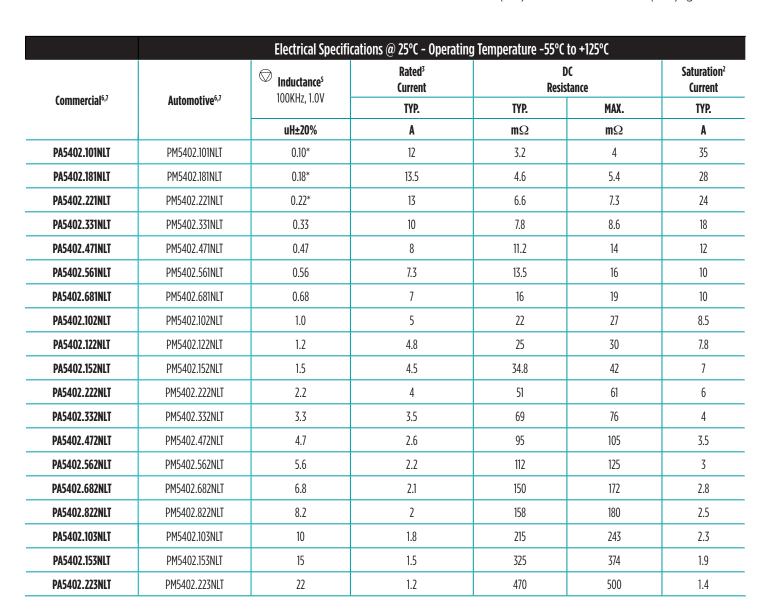
High current, low DCR, and high efficiency

Shielded construction and compact design

Minimized acoustic noise and minimized leakage flux noise

200 Vdc Isolation Between Terminal and Core

Available in Commercial (PA) and Automotive (PM) grades



Power.PulseElectronics.com P875. B (05/22)

High Current Molded Power Inductor - PA5402 & PM5402 Series



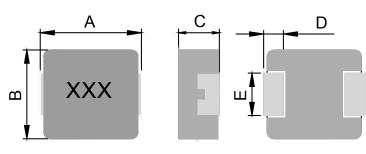
Notes:

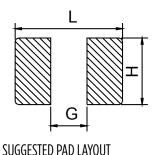
- 1. Actual temperature of the component during system operation (ambient plus temperature rise) must be within the standard operating range.
- 2. The saturation current is the current at which the initial inductance drops approximately 30% at the stated ambient temperature. This current is determined by placing the compnent 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 3. 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 ±20%, except those indicated by an * which are +/- 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 availablity.
- The PM prefix parts are AEC-Q200 qualified and has full automotive IATF16949 certification. The mechanical 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.
- Special characteristics

Mechanical

PA5402/PM5402





	ΙΔΥ	

Series	A	В	C	D	E	1	G	Н
PA5402/PM5402	4.45+/-0.25	4.06+/-0.25	1.8+/-0.2	0.76+/-0.3	2.0+/-0.2	5.2	2.2	2.4

All Dimensions in mm.

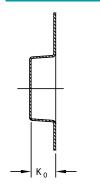
2

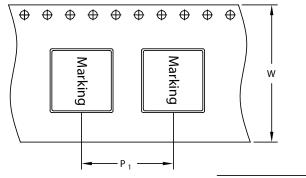
P875. B (05/22)

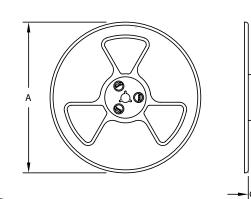
High Current Molded Power Inductor - PA5402 & PM5402 Series



TAPE & REEL INFO





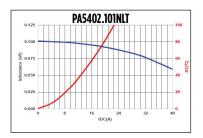


Direction of tape

SURFACE MOUNTING TYPE, REEL/TAPE LIST						
	REEL SIZE (mm)		TAPE SIZE (mm)			QTY
	A	G	P ₁	W	K _o	PCS/REEL
PA5402/PM5402	Ø330	12.4	8	12	2.3	3000

Typical Performace Curves

PA5402/PM5402

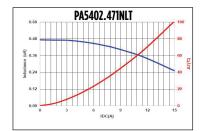


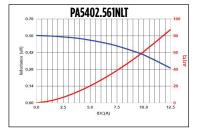






3

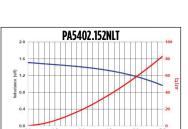


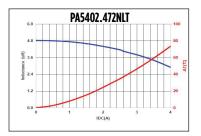


Power.PulseElectronics.com P875. B (05/22)

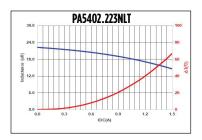
High Current Molded Power Inductor - PA5402 & PM5402 Series

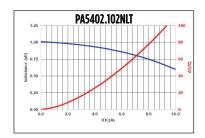


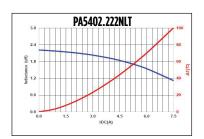


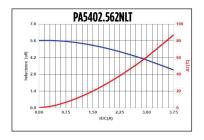


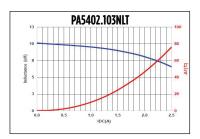






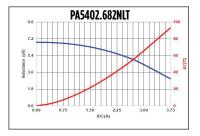


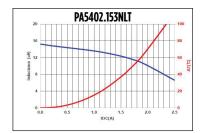












For More Information:

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, 2022. Pulse Electronics, Inc. All rights reserved.





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

















Tel: +00 852-30501935

RFQ Email: Info@DiGi-Electronics.com