

PA4318.223NLT Datasheet

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DiGi Electronics Part Number	PA4318.223NLT-DG
Manufacturer	Pulse Electronics
Manufacturer Product Number	PA4318.223NLT
Description	FIXED IND 22UH 1.12A 158MOHM SMD
Detailed Description	22 μ H Shielded Wirewound Inductor 1.12 A 158mOhm Max Nonstandard, Corner Terminals

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Purchase and inquiry

Manufacturer Product Number:

PA4318.223NLT

Series:

PA4318

Type:

Wirewound

Inductance:

22 μ H

Current Rating (Amps):

1.12 A

Shielding:

Shielded

Q @ Freq:

-

Ratings:

-

Inductance Frequency - Test:

100 kHz

Mounting Type:

Surface Mount

Supplier Device Package:

-

Height - Seated (Max):

0.126" (3.20mm)

Manufacturer:

Pulse Electronics

Product Status:

Active

Material - Core:

-

Tolerance:

\pm 20%

Current - Saturation (Isat):

970mA

DC Resistance (DCR):

158mOhm Max

Frequency - Self Resonant:

-

Operating Temperature:

-40°C ~ 125°C

Features:

-

Package / Case:

Nonstandard, Corner Terminals

Size / Dimension:

0.240" L x 0.240" W (6.10mm x 6.10mm)

Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8504.50.8000

Moisture Sensitivity Level (MSL):

1 (Unlimited)

ECCN:

EAR99

Shielded Drum Core Inductor

PA4322,PA4318,PA4319 Series



Height: PA4322 (3.1mm Max), PA4318 (3.2mm Max), PA4319 (4.1mm Max)

Footprint: PA4322 (5.1x5.1mm Max), PA4318 (6.1x6.1mm Max), PA4319 (7.3x7.3mm Max)

Current Rating: up to 3.98A

Inductance Range: 2.2uH to 680uH

Electrical Specifications @ 25°C – Operating Temperature -40°C to 125°C

PART NUMBER	INDUCTANCE 100 KHz, 100 mV ($\mu\text{H} \pm 20\%$)	RATED CURRENT (A)	DCR (mOHMS MAX)	SATURATION CURRENT (TYPICAL) A			HEATING CURRENT	
				10% DROP	20% DROP	30% DROP	20°C Rise	40°C Rise
PA4322NL SERIES								
PA4322.222NLT	2.2	2.08	20	1.76	2.08	2.30	2.00	3.30
PA4322.472NLT	4.7	1.32	38	1.08	1.32	1.42	1.40	2.50
PA4322.103NLT	10	0.98	70	0.85	0.98	1.13	1.00	1.90
PA4322.223NLT	22	0.64	145	0.54	0.64	0.70	0.87	1.30
PA4322.473NLT	47	0.46	270	0.38	0.46	0.51	0.70	0.95
PA4322.683NLT	68	0.38	368	0.31	0.38	0.42	0.60	0.75
PA4322.104NLT	100	0.30	580	0.26	0.30	0.33	0.45	0.69
PA4322.224NLT	220	0.21	1100	0.18	0.21	0.23	0.39	0.40
PA4322.394NLT	390	0.15	1800	0.12	0.15	0.16	0.25	0.35
PA4318NL SERIES								
PA4318.472NLT	4.7	2.60	43	2.18	2.60	2.84	2.30	3.10
PA4318.682NLT	6.8	2.12	52	1.80	2.12	2.30	1.90	2.40
PA4318.103NLT	10	1.64	70	1.36	1.64	1.84	1.75	2.30
PA4318.153NLT	15	1.42	106	1.16	1.42	1.56	1.45	1.90
PA4318.223NLT	22	1.12	158	0.97	1.12	1.22	1.00	1.50
PA4318.473NLT	47	0.86	300	0.72	0.86	0.93	0.75	0.95
PA4318.683NLT	68	0.63	410	0.55	0.63	0.69	0.55	0.80
PA4318.104NLT	100	0.54	660	0.45	0.54	0.59	0.45	0.65

Shielded Drum Core Inductor

PA4322, PA4318, PA4319 Series

Electrical Specifications @ 25°C — Operating Temperature -40°C to 125°C

PART NUMBER	INDUCTANCE ⁴ 100 KHz, 100 mV ($\mu\text{H} \pm 20\%$)	RATED CURRENT (A)	DCR (mOHMS MAX)	SATURATION CURRENT (TYPICAL) A			HEATING CURRENT	
				10% DROP	20% DROP	30% DROP	20°C Rise	40°C Rise
PA4319NL SERIES								
PA4319.332NLT	3.3*	3.28	18	2.74	3.28	3.72	3.95	5.00
PA4319.103NLT	10	1.92	38	1.64	1.92	2.10	2.55	3.20
PA4319.153NLT	15	1.60	55	1.36	1.60	1.78	1.90	2.60
PA4319.223NLT	22	1.26	82	1.02	1.26	1.42	1.35	2.00
PA4319.333NLT	33	1.04	124	0.91	1.04	1.16	1.05	1.50
PA4319.473NLT	47	0.92	155	0.74	0.92	1.00	1.00	1.35
PA4319.104NLT	100	0.64	310	0.54	0.64	0.71	0.70	0.90
PA4319.224NLT	220	0.41	710	0.35	0.41	0.47	0.40	0.55
PA4319.684NLT	680*	0.29	1980	0.22	0.27	0.29	0.25	0.32

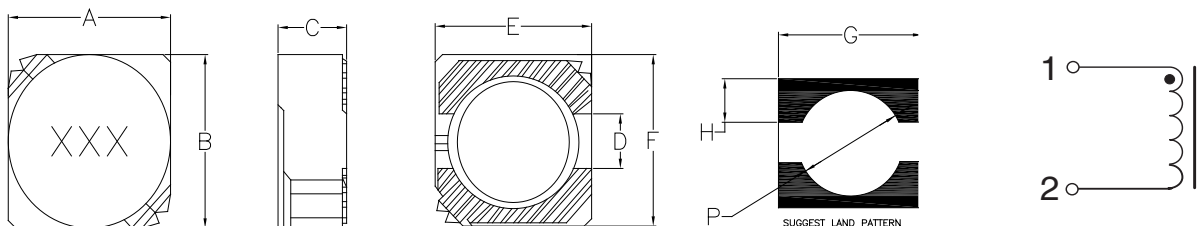
NOTES:

- 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 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 the value listed. Take note that the component's 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.
- Please note that the inductance tolerance is $\pm 20\%$ for all parts except PA4319.332NLT ($\pm 30\%$) and PA4319.684NLT ($\pm 10\%$).

Mechanical

Schematic

PA43XX.XXXNLT



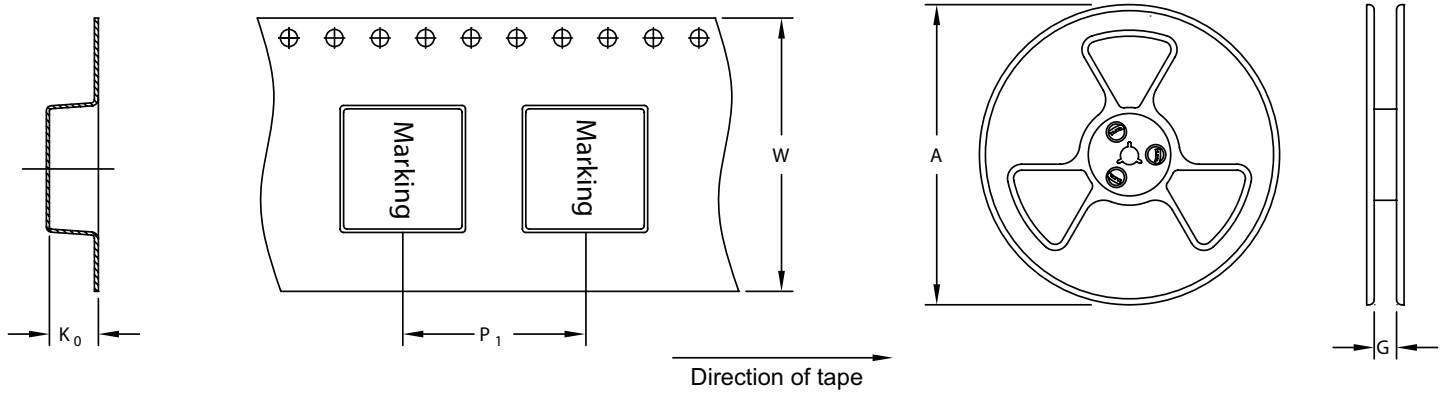
Part Number	A	B	C	D	E	F	G	H	J	P
PA4322.XXXNLT	5.1 MAX	5.1 MAX	3.1 MAX	1.6 TYP	4.6 TYP	4.6 TYP	5.08 TYP	1.74 TYP	5.08 TYP	4.05 TYP
PA4318.XXXNLT	6.1 MAX	6.1 MAX	3.2 MAX	2.0 TYP	5.6 TYP	5.6 TYP	6.0 MIN	2.0 TYP	6.0 MIN	4.85 TYP
PA4319.XXXNLT	7.3 MAX	7.3 MAX	4.1 MAX	2.1 TYP	6.6 TYP	6.6 TYP	7.1 TYP	2.5 TYP	7.1 TYP	5.65 TYP

Shielded Drum Core Inductor

PA4322, PA4318, PA4319 Series



TAPE & REEL INFO

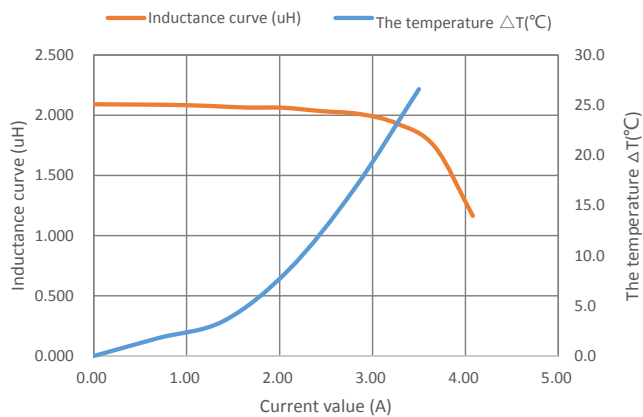


SURFACE MOUNTING TYPE, REEL/TAPE LIST

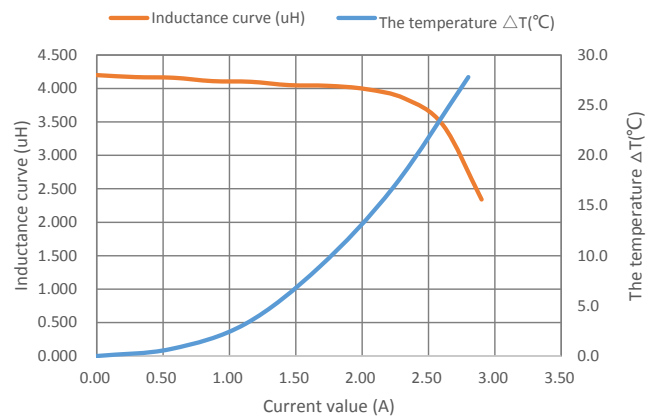
TYPE	REEL SIZE (mm)		TAPE SIZE (mm)			QTY
	A	G	P ₁	W	K ₀	PCS/REEL
PA4322.XXXNLT	Ø330	12.5	8	12	3.3	2000
PA4318.XXXNLT	Ø330	16.5	8	16	3.3	2000
PA4319.XXXNLT	Ø330	16.5	12	16	4.3	1000

Typical Performance Curves ---PA4322NLT SERIES

PA4322.222NLT



PA4322.472NLT

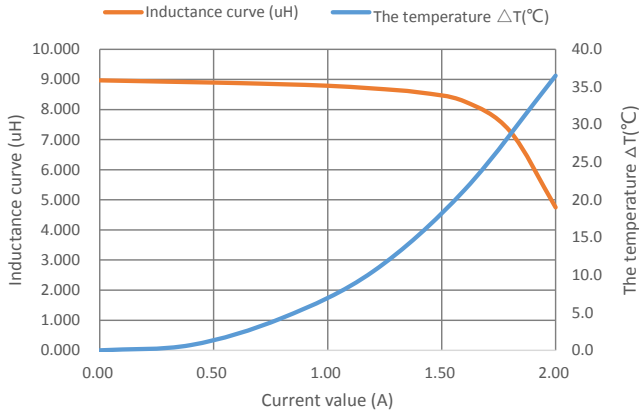


Shielded Drum Core Inductor

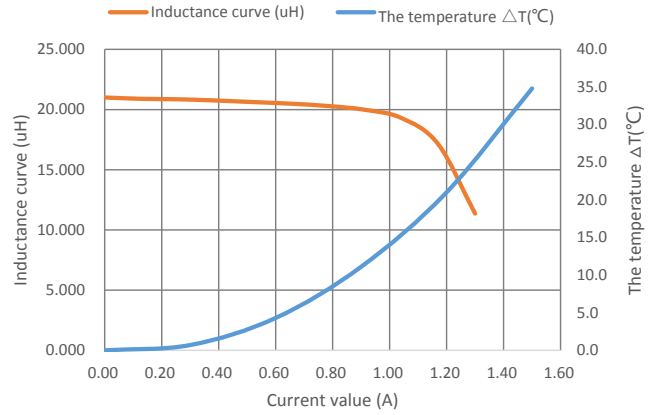
PA4322,PA4318,PA4319 Series



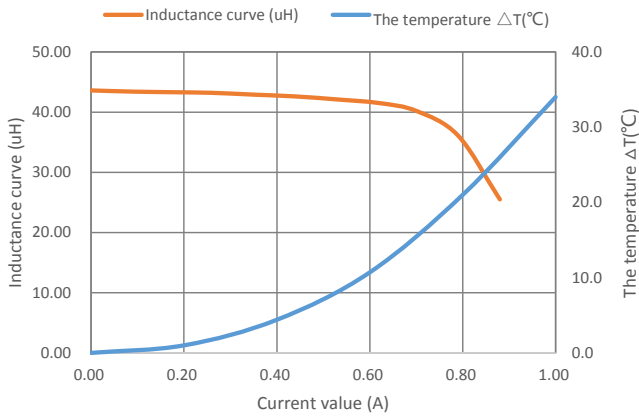
PA4322.103NLT



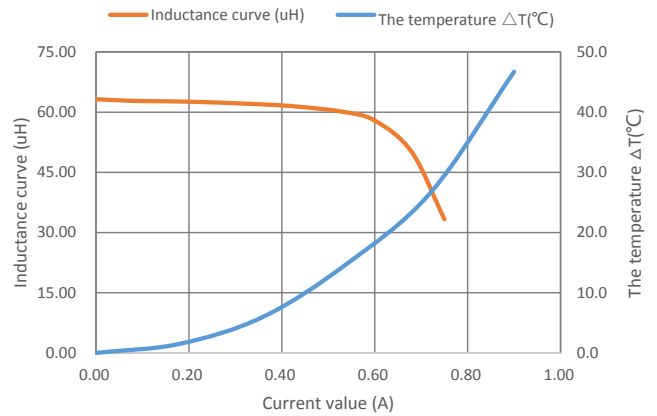
PA4322.223NLT



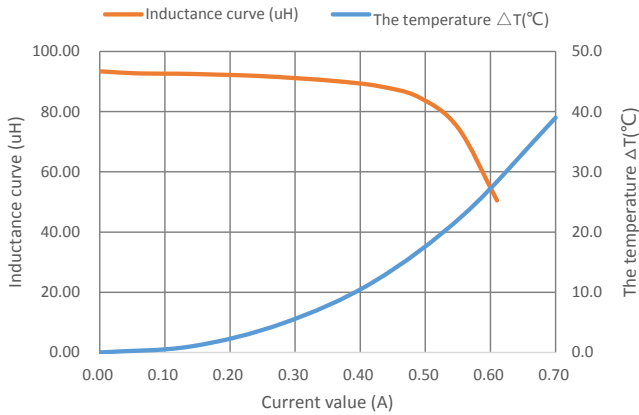
PA4322.473NLT



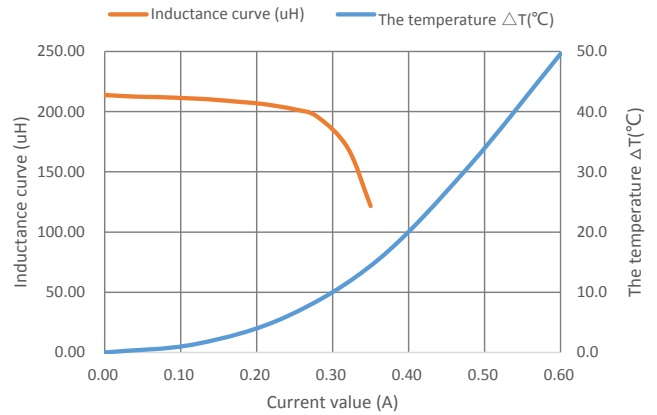
PA4322.683NLT



PA4322.104NLT



PA4322.224NLT

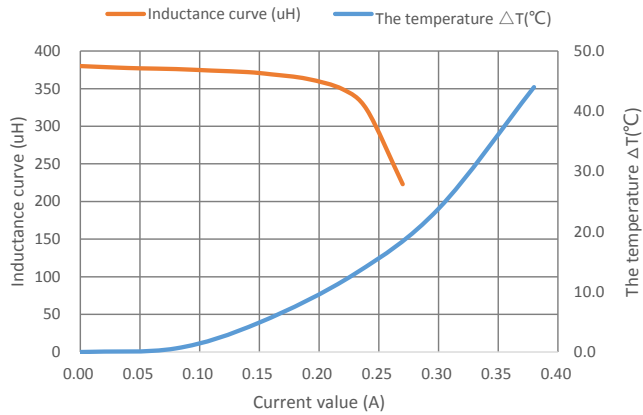


Shielded Drum Core Inductor

PA4322,PA4318,PA4319 Series

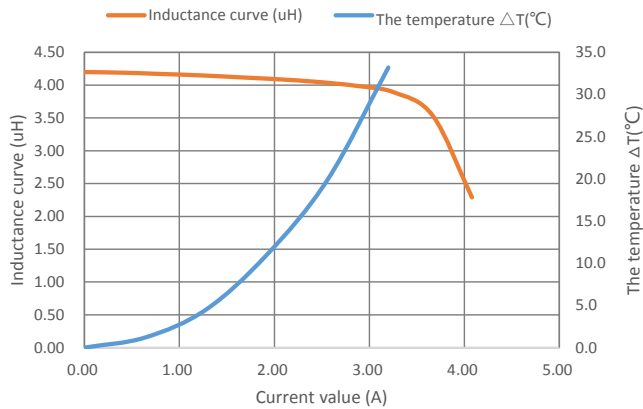


PA4322.394NLT

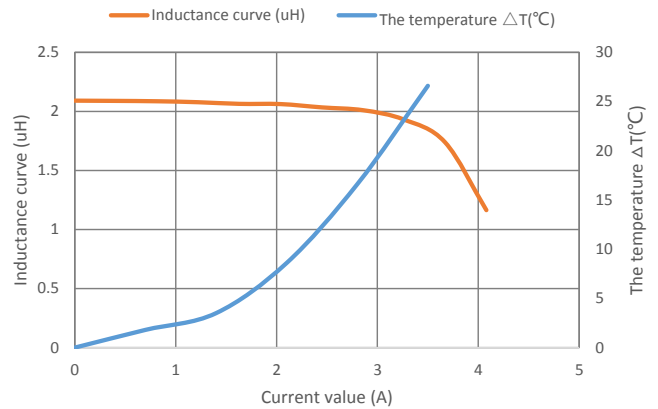


Typical Performance Curves ---PA4318NL SERIES

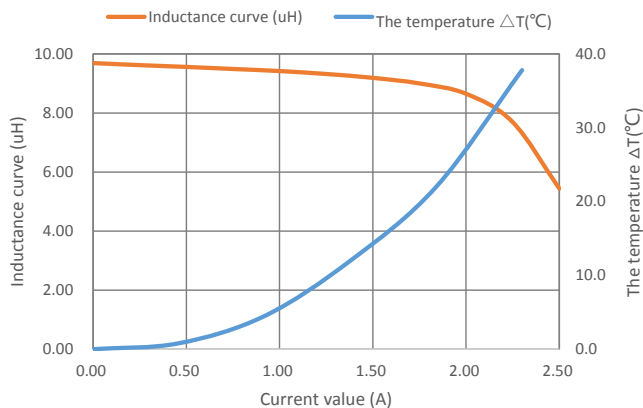
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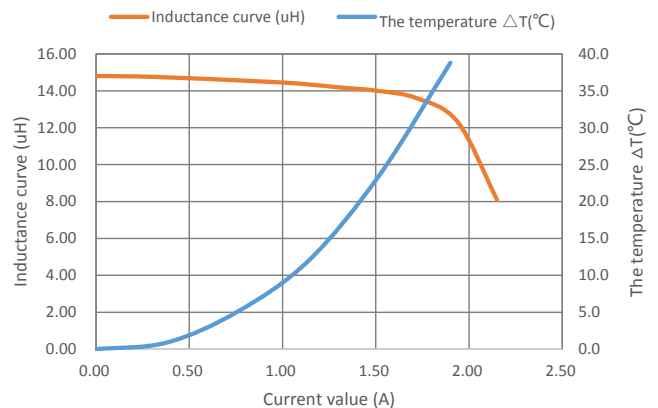
PA4318.682NLT



PA4318.103NLT



PA4318.153NLT

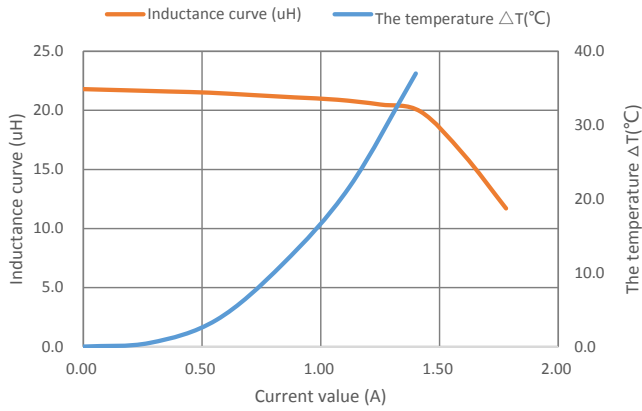


Shielded Drum Core Inductor

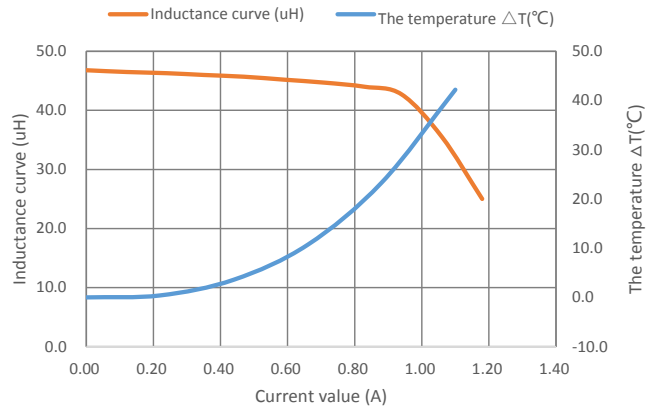
PA4322,PA4318,PA4319 Series



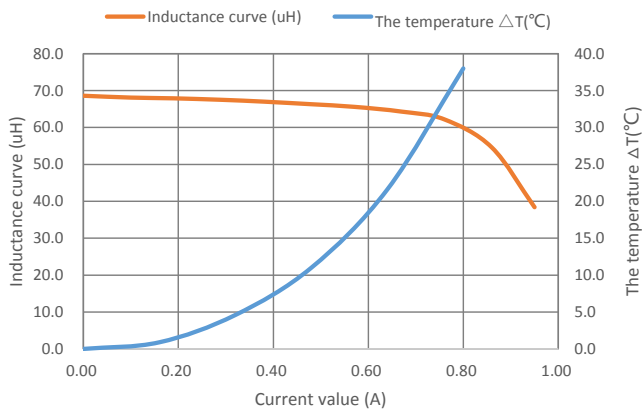
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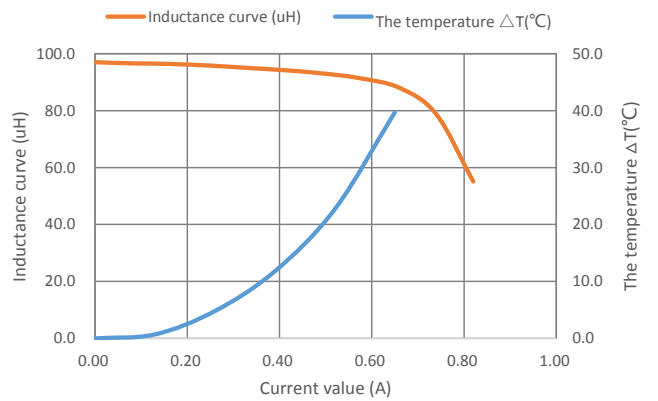
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PA4318.683NLT

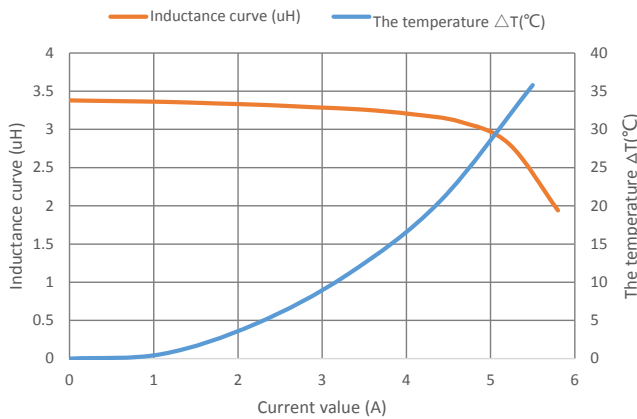


PA4318.104NLT

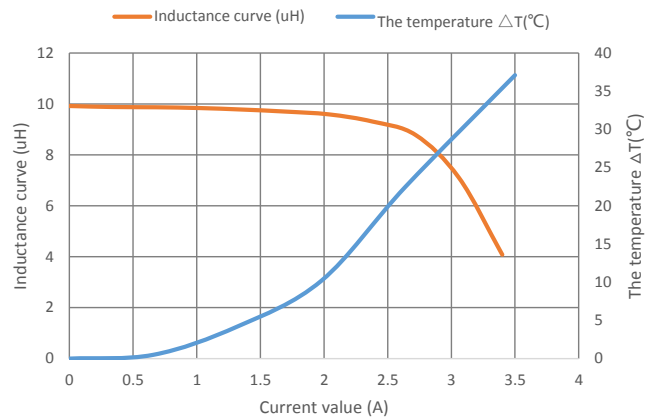


Typical Performance Curves ---PA4319NL SERIES

PA4319.332NLT



PA4319.103NLT

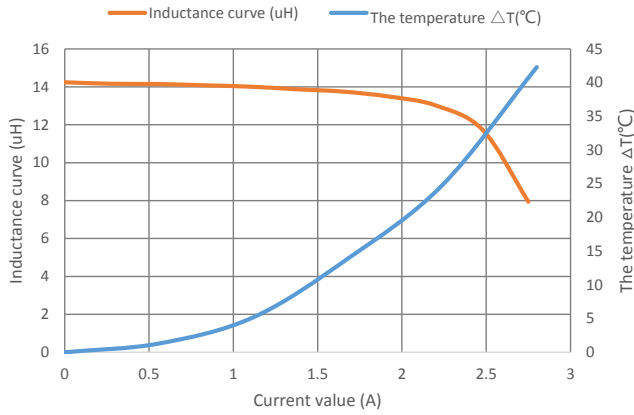


Shielded Drum Core Inductor

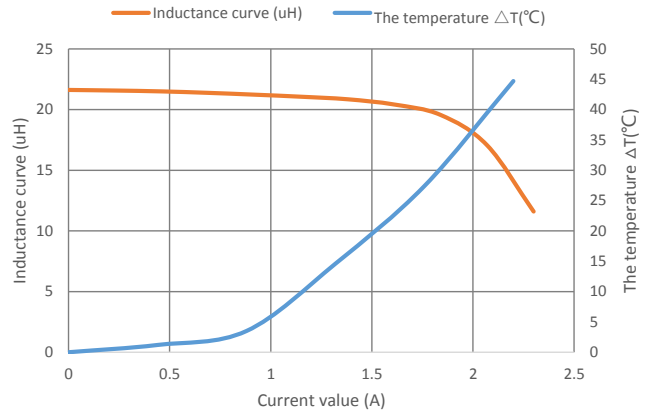
PA4322,PA4318,PA4319 Series



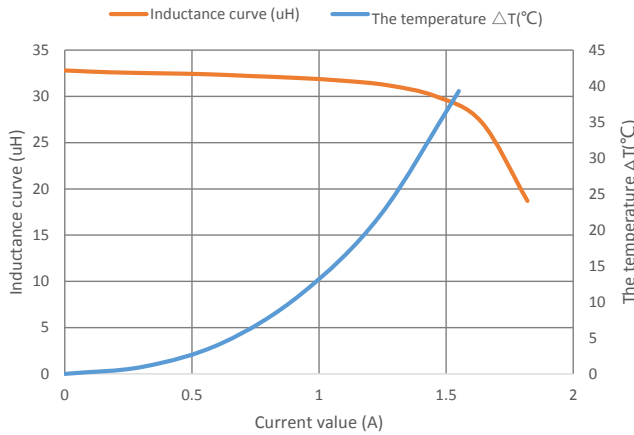
PA4319.153NLT



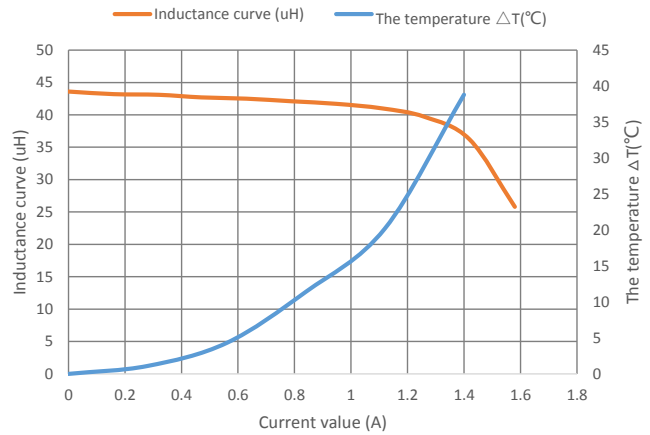
PA4319.223NLT



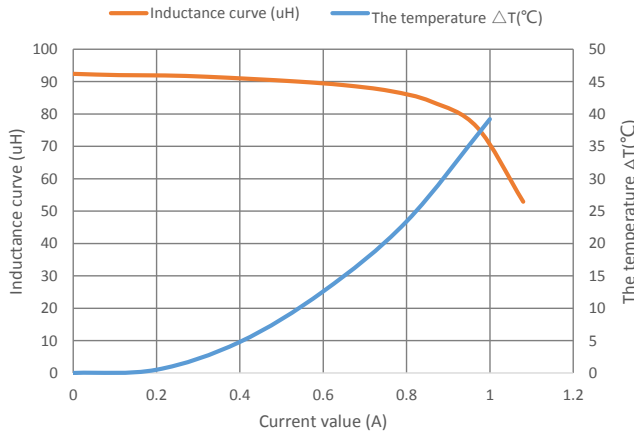
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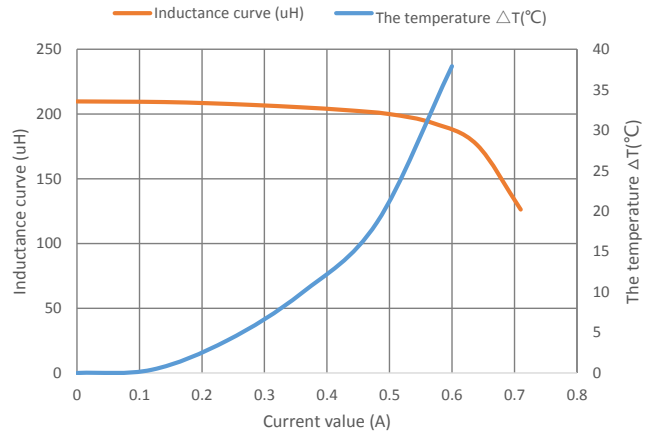
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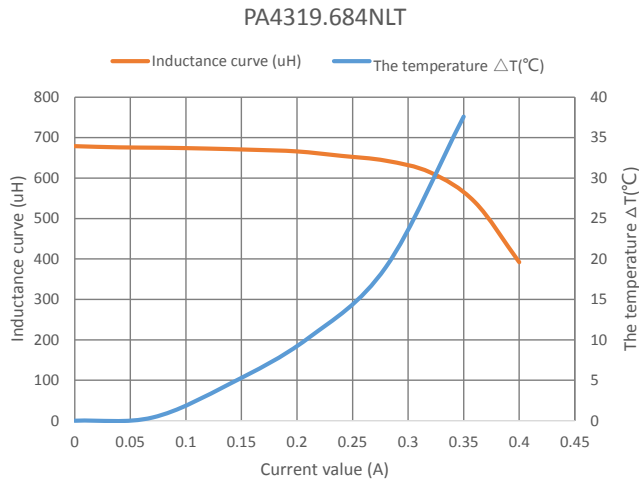


PA4319.224NLT



Shielded Drum Core Inductor

PA4322,PA4318,PA4319 Series



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