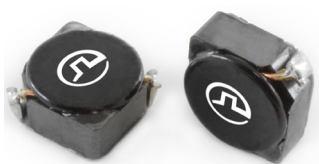
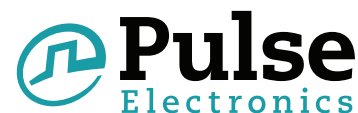






Shielded Drum Core Inductor

PA4322, PA4318, PA4319 Series



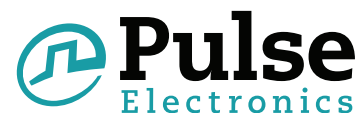
-  **Height:** PA4322 (3.1mm Max), PA4318 (3.2mm Max), PA4319 (4.1mm Max)
-  **Footprint:** PA4322 (5.1x5.1mm Max), PA4318 (6.1x6.1mm Max), PA4319 (7.3x7.3mm Max)
-  **Current Rating:** up to 3.98A
-  **Inductance Range:** 2.2uH to 680uH

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 (uH±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

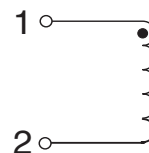
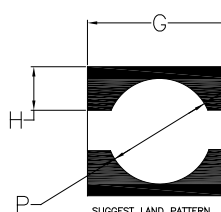
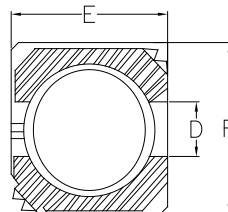
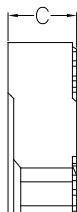
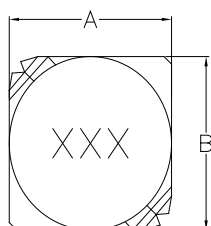
NOTES:

- 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

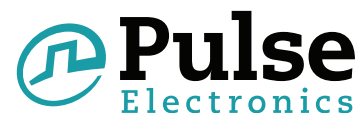
PA43XX.XXXNLT



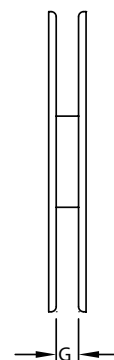
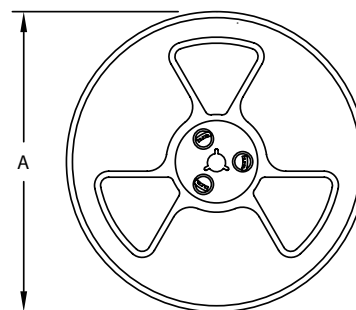
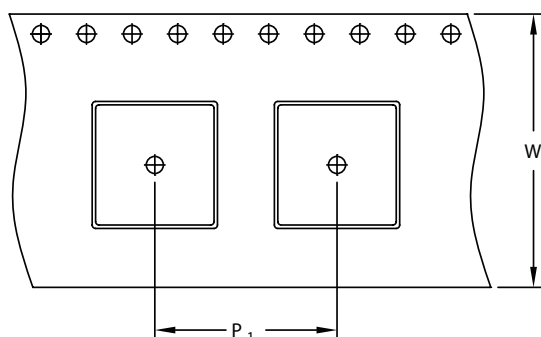
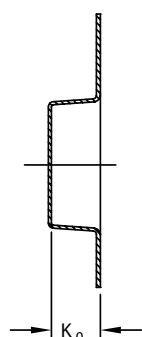
Part Number	A	B	C	D	E	F	G	H	J	P
PA4322.XXXNLT	5.1 MAX	5.1 MAX	3.1 MAX	1.6 TYP	4.6 TYP	4.6 TYP	5.08 TYP	1.74 TYP	5.08 TYP	4.05 TYP
PA4318.XXXNLT	6.1 MAX	6.1 MAX	3.2 MAX	2.0 TYP	5.6 TYP	5.6 TYP	6.0 MIN	2.0 TYP	6.0 MIN	4.85 TYP
PA4319.XXXNLT	7.3 MAX	7.3 MAX	4.1 MAX	2.1 TYP	6.6 TYP	6.6 TYP	7.1 TYP	2.5 TYP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

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Pulse:

<u>PA4318.223NLT</u>	<u>PA4319.473NLT</u>	<u>PA4322.224NLT</u>	<u>PA4319.224NLT</u>	<u>PA4322.104NLT</u>	<u>PA4319.333NLT</u>
<u>PA4318.153NLT</u>	<u>PA4322.473NLT</u>	<u>PA4322.223NLT</u>	<u>PA4319.684NLT</u>	<u>PA4318.104NLT</u>	<u>PA4318.473NLT</u>
<u>PA4322.222NLT</u>	<u>PA4318.682NLT</u>	<u>PA4318.103NLT</u>	<u>PA4319.104NLT</u>	<u>PA4318.472NLT</u>	<u>PA4322.103NLT</u>
<u>PA4318.683NLT</u>	<u>PA4319.332NLT</u>	<u>PA4319.153NLT</u>	<u>PA4319.103NLT</u>	<u>PA4322.394NLT</u>	<u>PA4319.223NLT</u>
<u>PA4322.472NLT</u>	<u>PA4322.683NLT</u>				