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Unshielded Drum Core Inductor

PA4309.XXXNL & PA4310.XXXNL Series

Pulse Electronics

RoHS COMPLIANT



- **Height:** *7.0mm (PA4309) and 8.0mm (PA4310) Max*
- **Footprint:** *12.8 x 12.8 mm Max*
- **Current Rating:** *1A to 20A*
- **Inductance Range:** *1uH to 1000uH*

Electrical Specifications @ 25°C — Operating Temperature -40°C to 125°C				
Pulse Part Number	Inductance (uH)[1,2]	Rated Current (A) Max[3]	DC Resistance (mΩ) Max	Package Size (mm)
PA4309.102NLT	1.0	20	19	
PA4309.152NLT	1.5	20	22	
PA4309.222NLT	2.2	20	27	
PA4309.332NLT	3.3	19	30	
PA4309.472NLT	4.7	15	38	
PA4309.562NLT	5.6	14.5	40	
PA4309.682NLT	6.8	13.5	42	
PA4309.822NLT	8.2	11.5	48	
PA4309.103NLT	10	11	52	
PA4309.153NLT	15	9.3	68	
PA4309.223NLT	22	7.5	98	
PA4309.333NLT	33	6.2	135	
PA4309.473NLT	47	5.2	182	
PA4309.563NLT	56	4.6	236	
PA4309.683NLT	68	4.2	298	12.8 x 12.8 x 7.0mm Max
PA4309.823NLT	82	3.9	326	
PA4309.104NLT	100	3.5	405	
PA4309.124NLT	120	3.2	452	
PA4309.154NLT	150	2.8	605	
PA4309.184NLT	180	2.6	735	
PA4309.224NLT	220	2.3	885	
PA4309.274NLT	270	2.12	985	
PA4309.334NLT	330	1.9	1215	
PA4309.394NLT	390	1.75	1485	
PA4309.474NLT	470	1.6	1755	
PA4309.564NLT	560	1.45	2241	
PA4309.684NLT	680	1.32	2565	
PA4309.824NLT	820	1.2	3510	
PA4309.105NLT	1000	1.08	3915	

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Electrical Specifications @ 25°C — Operating Temperature -40°C to 125°C				
Pulse Part Number	**Inductance (uH)**	**Rated Current (A) Max**	**DC Resistance (mΩ) Max**	**Package Size (mm)**
PA4310.102NLT	1	20	16	
PA4310.152NLT	1.5	20	18	
PA4310.222NLT	2.2	20	20	
PA4310.332NLT	3.3	20	26	
PA4310.472NLT	4.7	17	28	
PA4310.562NLT	5.6	16	30	
PA4310.682NLT	6.8	14	32	
PA4310.822NLT	8.2	13	36	
PA4310.103NLT	10	12	37	
PA4310.153NLT	15	9	63	
PA4310.223NLT	22	7	82	
PA4310.333NLT	33	6.5	109	
PA4310.473NLT	47	5	160	
PA4310.563NLT	56	4.8	191	
PA4310.683NLT	68	4.3	225	12.8 x 12.8 x 8.0mm Max
PA4310.823NLT	82	4	285	
PA4310.104NLT	100	3.5	310	
PA4310.124NLT	120	3.2	380	
PA4310.154NLT	150	3	430	
PA4310.184NLT	180	2.7	570	
PA4310.224NLT	220	2.5	660	
PA4310.274NLT	270	2.1	830	
PA4310.334NLT	330	1.8	941	
PA4310.394NLT	390	1.7	1170	
PA4310.474NLT	470	1.6	1430	
PA4310.564NLT	560	1.5	1680	
PA4310.684NLT	680	1.4	1999	
PA4310.824NLT	820	1.2	2630	
PA4310.105NLT	1000	1.1	3600	

NOTES:

1. Inductance tolerance is +/-30% for inductance values between 1uH and 8.2uH and +/-20% for values between 10uH and 680uH.
2. Inductance is measured at 100kHz, 250mV
3. The rated current as listed is the rms or heating current that the part can withstand with acceptable temperature rise in typical applications. At the listed current the inductance typically drops to 85%-90% of the no load value when measured at 25°C. The inductance is guaranteed to be greater than 65% of the no load inductance value when measured at 25°C.
4. The temperature of the component (ambient plus temperature rise) must be within the stated operating temperature.
5. Parts come in tape and reel packaging. Pulse complies with industry standard tape and reel specification EIA481. The tape and reel for this product has a width (W=24mm) and pitch (P=16mm).

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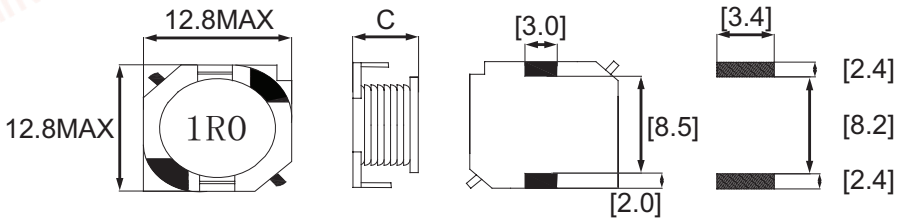
Mechanical

PA43XX.XXXNLT



PA4309.XXXNL – C dimension is 7.0mm Max
PA4310.XXXNL – C dimensin is 8.0mm Max

Weight .....PA4309 (2.03 grams), PA4310 (2.39 grams)
Tape & Reel 1500/reel

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