

Unshielded Drum Core Inductor

PA4306.XXXNL, PA4307.XXXNL & PA4308.XXXNL Series



- Height:** 3.1mm (PA4306), 3.5mm (PA4307) and 4.8mm (PA4308) Max
- Footprint:** 7.3 x 7.3 mm Max
- Current Rating:** 0.22A to 12A
- 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) |
|-------------------|--------------------------------|------------------------------------|------------------------|-----------------------|
| PA4306.102NLT | 1.0 | 5.9 | 33 | 7.3 x 7.3 x 3.1mm Max |
| PA4306.152NLT | 1.5 | 5.7 | 35 | |
| PA4306.222NLT | 2.2 | 5 | 45 | |
| PA4306.332NLT | 3.3 | 4 | 60 | |
| PA4306.472NLT | 4.7 | 3.3 | 72 | |
| PA4306.562NLT | 5.6 | 3 | 85 | |
| PA4306.682NLT | 6.8 | 2.7 | 120 | |
| PA4306.822NLT | 8.2 | 2.4 | 130 | |
| PA4306.103NLT | 10 | 2.1 | 140 | |
| PA4306.153NLT | 15 | 1.8 | 208 | |
| PA4306.223NLT | 22 | 1.5 | 286 | |
| PA4306.333NLT | 33 | 1.2 | 470 | |
| PA4306.473NLT | 47 | 1 | 640 | |
| PA4306.563NLT | 56 | 0.95 | 810 | |
| PA4306.683NLT | 68 | 0.82 | 975 | |
| PA4306.823NLT | 82 | 0.8 | 1053 | |
| PA4306.104NLT | 100 | 0.75 | 1210 | |
| PA4306.124NLT | 120 | 0.63 | 1690 | |
| PA4306.154NLT | 150 | 0.6 | 1820 | |
| PA4306.184NLT | 180 | 0.52 | 2340 | |
| PA4306.224NLT | 220 | 0.44 | 2700 | |
| PA4306.274NLT | 270 | 0.42 | 4030 | |
| PA4306.334NLT | 330 | 0.4 | 4680 | |
| PA4306.394NLT | 390 | 0.36 | 5070 | |
| PA4306.474NLT | 470 | 0.35 | 5720 | |
| PA4306.564NLT | 560 | 0.3 | 6630 | |
| PA4306.684NLT | 680 | 0.28 | 8580 | |
| PA4306.824NLT | 820 | 0.25 | 11800 | |
| PA4306.105NLT | 1000 | 0.22 | 14950 | |

Unshielded Drum Core Inductor

PA4306.XXXNL, PA4307.XXXNL & PA4308.XXXNL Series



| Electrical Specifications @ 25°C – Operating Temperature -40°C to 125°C | | | | |
|---|-------------------------------|------------------------------------|------------------------|-----------------------|
| Pulse Part Number | Inductance (uH) ¹² | Rated Current (A) Max ³ | DC Resistance (mΩ) Max | Package Size (mm) |
| PA4307.102NLT | 1.0 | 7.5 | 30 | 7.3 x 7.3 x 3.5mm Max |
| PA4307.152NLT | 1.5 | 7.3 | 38 | |
| PA4307.222NLT | 2.2 | 6.8 | 42 | |
| PA4307.332NLT | 3.3 | 5.4 | 60 | |
| PA4307.472NLT | 4.7 | 4.6 | 70 | |
| PA4307.562NLT | 5.6 | 4 | 85 | |
| PA4307.682NLT | 6.8 | 3.8 | 95 | |
| PA4307.822NLT | 8.2 | 3.4 | 130 | |
| PA4307.103NLT | 10 | 2.8 | 140 | |
| PA4307.153NLT | 15 | 2.5 | 285 | |
| PA4307.223NLT | 22 | 2 | 345 | |
| PA4307.333NLT | 33 | 1.8 | 425 | |
| PA4307.473NLT | 47 | 1.5 | 587 | |
| PA4307.563NLT | 56 | 1.3 | 610 | |
| PA4307.683NLT | 68 | 1.2 | 850 | |
| PA4307.823NLT | 82 | 1.1 | 1066 | |
| PA4307.104NLT | 100 | 1 | 1243 | |
| PA4307.124NLT | 120 | 0.9 | 1620 | |
| PA4307.154NLT | 150 | 0.8 | 1755 | |
| PA4307.184NLT | 180 | 0.75 | 2025 | |
| PA4307.224NLT | 220 | 0.63 | 2700 | |
| PA4307.274NLT | 270 | 0.6 | 2835 | |
| PA4307.334NLT | 330 | 0.55 | 3780 | |
| PA4307.394NLT | 390 | 0.5 | 4825 | |
| PA4307.474NLT | 470 | 0.44 | 5400 | |
| PA4307.564NLT | 560 | 0.4 | 7290 | |
| PA4307.684NLT | 680 | 0.35 | 9585 | |
| PA4307.824NLT | 820 | 0.32 | 10820 | |
| PA4307.105NLT | 1000 | 0.3 | 12295 | |

Unshielded Drum Core Inductor

PA4306.XXXNL, PA4307.XXXNL & PA4308.XXXNL Series



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) |
|-------------------|--------------------------------|------------------------------------|------------------------|-----------------------|
| PA4308.102NLT | 1.0 | 12 | 35 | 7.3 x 7.3 x 4.8mm Max |
| PA4308.152NLT | 1.5 | 11 | 38 | |
| PA4308.222NLT | 2.2 | 9 | 42 | |
| PA4308.332NLT | 3.3 | 7.5 | 50 | |
| PA4308.472NLT | 4.7 | 6 | 65 | |
| PA4308.562NLT | 5.6 | 5.5 | 70 | |
| PA4308.682NLT | 6.8 | 5.2 | 84 | |
| PA4308.822NLT | 8.2 | 4.8 | 97 | |
| PA4308.103NLT | 10 | 4.3 | 125 | |
| PA4308.153NLT | 15 | 3.4 | 158 | |
| PA4308.223NLT | 22 | 2.9 | 225 | |
| PA4308.333NLT | 33 | 2.3 | 358 | |
| PA4308.473NLT | 47 | 1.9 | 486 | |
| PA4308.563NLT | 56 | 1.75 | 545 | |
| PA4308.683NLT | 68 | 1.6 | 660 | |
| PA4308.823NLT | 82 | 1.4 | 885 | |
| PA4308.104NLT | 100 | 1.3 | 1120 | |
| PA4308.124NLT | 120 | 1.23 | 1485 | |
| PA4308.154NLT | 150 | 1.1 | 1647 | |
| PA4308.184NLT | 180 | 1 | 1863 | |
| PA4308.224NLT | 220 | 0.92 | 2450 | |
| PA4308.274NLT | 270 | 0.8 | 2995 | |
| PA4308.334NLT | 330 | 0.7 | 3888 | |
| PA4308.394NLT | 390 | 0.65 | 4250 | |
| PA4308.474NLT | 470 | 0.57 | 5610 | |
| PA4308.564NLT | 560 | 0.53 | 7830 | |
| PA4308.684NLT | 680 | 0.48 | 10760 | |
| PA4308.824NLT | 820 | 0.42 | 12217 | |
| PA4308.105NLT | 1000 | 0.36 | 17550 | |

NOTES:

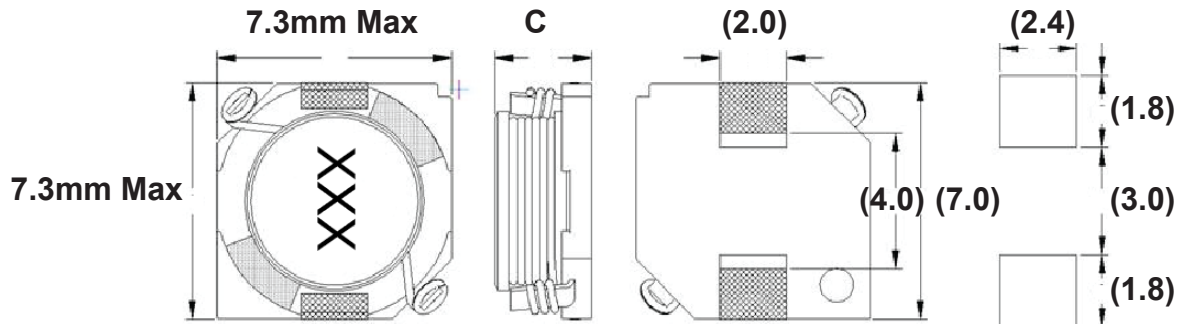
- Inductance tolerance is +/-30% for inductance values between 1uH and 8.2uH and +/-20% for values between 10uH and 680uH.
- Inductance is measured at 100kHz, 250mV
- The rated current as listed is the rms or heating current that the part can withstand with acceptable temperature rise in typical applications. 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.
- The temperature of the component (ambient plus temperature rise) must be within the stated operating temperature.
- 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=16mm) and pitch (P=12mm).

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PA4306.XXXNL, PA4307.XXXNL & PA4308.XXXNL Series

Mechanical

PA43XX.XXXNL



PA4306.XXXNL - C Dimension is 3.1mm Max
 PA4307.XXXNL - C Dimension is 3.5mm Max
 PA4308.XXXNL - C Dimension is 4.8mm Max

Weight0.266 grams (PA4306)
0.314 grams (PA4307)
0.44 grams (PA4308)
Tape & Reel1000/reel

For More Information

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