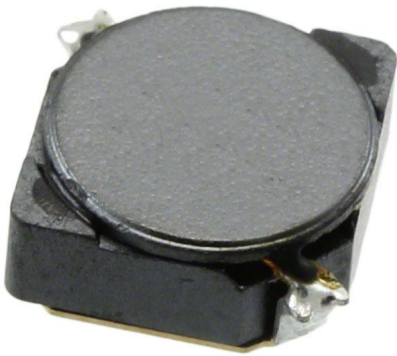


PA4301.474NLT Datasheet

www.digi-electronics.com



<https://www.DiGi-Electronics.com>

| | |
|------------------------------|---|
| DiGi Electronics Part Number | PA4301.474NLT-DG |
| Manufacturer | Pulse Electronics |
| Manufacturer Product Number | PA4301.474NLT |
| Description | FIXED IND 470UH 230MA 2.73OHM SM |
| Detailed Description | 470 μ H Shielded Drum Core, Wirewound Inductor 230 mA 2.73Ohm Max 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:

PA4301.474NLT

Series:

PA4301.XXXNLT

Type:

Drum Core, Wirewound

Inductance:

470 μ H

Current Rating (Amps):

230 mA

Shielding:

Shielded

Q @ Freq:

-

Ratings:

-

Inductance Frequency - Test:

1 kHz

Mounting Type:

Surface Mount

Supplier Device Package:

-

Height - Seated (Max):

0.118" (3.00mm)

Manufacturer:

Pulse Electronics

Product Status:

Active

Material - Core:

Ferrite

Tolerance:

\pm 20%

Current - Saturation (Isat):

-

DC Resistance (DCR):

2.730hm Max

Frequency - Self Resonant:

-

Operating Temperature:

-40°C ~ 125°C

Features:

-

Package / Case:

Nonstandard

Size / Dimension:

0.283" L x 0.283" W (7.20mm x 7.20mm)

Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8504.50.4000

Moisture Sensitivity Level (MSL):

1 (Unlimited)





ECCN:

EAR99

Shielded Drum Core Inductor

PA4300.XXXNLT & PA4301.XXXNLT Series



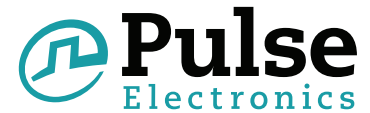
-  **Height:** 3.0mm Max
-  **Footprint:** 6.1 x 6.1 mm Max and 7.2 x 7.2 mm Max
-  **Current Rating:** 0.165A to 3.6A
-  **Inductance Range:** 1uH to 680uH

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) |
|-------------------|-----------------|-----------------------|------------------------|-------------------|
| PA4300.102NLT | 1.0 | 3.45 | 15.6 | 6.1 x 6.1 x 3 |
| PA4300.122NLT | 1.2 | 3 | 19.2 | 6.1 x 6.1 x 3 |
| PA4300.182NLT | 1.8 | 2.7 | 22.1 | 6.1 x 6.1 x 3 |
| PA4300.222NLT | 2.2 | 2.3 | 24.7 | 6.1 x 6.1 x 3 |
| PA4300.272NLT | 2.7 | 2.26 | 28.6 | 6.1 x 6.1 x 3 |
| PA4300.332NLT | 3.3 | 2.23 | 32.5 | 6.1 x 6.1 x 3 |
| PA4300.392NLT | 3.9 | 2.05 | 35 | 6.1 x 6.1 x 3 |
| PA4300.472NLT | 4.7 | 1.9 | 39 | 6.1 x 6.1 x 3 |
| PA4300.562NLT | 5.6 | 1.76 | 44.2 | 6.1 x 6.1 x 3 |
| PA4300.682NLT | 6.8 | 1.63 | 52 | 6.1 x 6.1 x 3 |
| PA4300.822NLT | 8.2 | 1.5 | 58.5 | 6.1 x 6.1 x 3 |
| PA4300.103NLT | 10 | 1.3 | 78 | 6.1 x 6.1 x 3 |
| PA4300.123NLT | 12 | 1.2 | 84.5 | 6.1 x 6.1 x 3 |
| PA4300.153NLT | 15 | 1.1 | 114.4 | 6.1 x 6.1 x 3 |
| PA4300.183NLT | 18 | 1 | 119.6 | 6.1 x 6.1 x 3 |
| PA4300.223NLT | 22 | 0.89 | 156 | 6.1 x 6.1 x 3 |
| PA4300.273NLT | 27 | 0.8 | 188.5 | 6.1 x 6.1 x 3 |
| PA4300.333NLT | 33 | 0.73 | 206.7 | 6.1 x 6.1 x 3 |
| PA4300.393NLT | 39 | 0.69 | 230.75 | 6.1 x 6.1 x 3 |
| PA4300.473NLT | 47 | 0.61 | 260 | 6.1 x 6.1 x 3 |
| PA4300.563NLT | 56 | 0.56 | 338 | 6.1 x 6.1 x 3 |
| PA4300.683NLT | 68 | 0.505 | 364 | 6.1 x 6.1 x 3 |
| PA4300.823NLT | 82 | 0.46 | 416 | 6.1 x 6.1 x 3 |
| PA4300.104NLT | 100 | 0.415 | 572 | 6.1 x 6.1 x 3 |
| PA4300.124NLT | 120 | 0.39 | 676 | 6.1 x 6.1 x 3 |
| PA4300.154NLT | 150 | 0.36 | 875 | 6.1 x 6.1 x 3 |
| PA4300.184NLT | 180 | 0.305 | 1050 | 6.1 x 6.1 x 3 |
| PA4300.224NLT | 220 | 0.285 | 1300 | 6.1 x 6.1 x 3 |
| PA4300.274NLT | 270 | 0.255 | 1520 | 6.1 x 6.1 x 3 |
| PA4300.334NLT | 330 | 0.23 | 2210 | 6.1 x 6.1 x 3 |
| PA4300.394NLT | 390 | 0.21 | 2400 | 6.1 x 6.1 x 3 |
| PA4300.474NLT | 470 | 0.19 | 2600 | 6.1 x 6.1 x 3 |
| PA4300.564NLT | 560 | 0.175 | 2960 | 6.1 x 6.1 x 3 |

Shielded Drum Core Inductor

PA4300.XXXNLT & PA4301.XXXNLT Series



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) |
|-------------------|-----------------|-----------------------|------------------------|-------------------|
| PA4300.684NLT | 680 | 0.165 | 3770 | 6.1 x 6.1 x 3 |
| PA4301.102NLT | 1.0 | 3.6 | 18.2 | 7.2 x 7.2 x 3 |
| PA4301.152NLT | 1.5 | 3.53 | 19.6 | 7.2 x 7.2 x 3 |
| PA4301.182NLT | 1.8 | 3.45 | 20.8 | 7.2 x 7.2 x 3 |
| PA4301.222NLT | 2.2 | 3.15 | 24.7 | 7.2 x 7.2 x 3 |
| PA4301.272NLT | 2.7 | 2.84 | 27.3 | 7.2 x 7.2 x 3 |
| PA4301.332NLT | 3.3 | 2.8 | 29.9 | 7.2 x 7.2 x 3 |
| PA4301.392NLT | 3.9 | 2.6 | 32.5 | 7.2 x 7.2 x 3 |
| PA4301.472NLT | 4.7 | 2.3 | 40.3 | 7.2 x 7.2 x 3 |
| PA4301.562NLT | 5.6 | 2.13 | 45.5 | 7.2 x 7.2 x 3 |
| PA4301.682NLT | 6.8 | 1.88 | 46.8 | 7.2 x 7.2 x 3 |
| PA4301.822NLT | 8.2 | 1.73 | 55.9 | 7.2 x 7.2 x 3 |
| PA4301.103NLT | 10 | 1.6 | 75.4 | 7.2 x 7.2 x 3 |
| PA4301.123NLT | 12 | 1.5 | 80.6 | 7.2 x 7.2 x 3 |
| PA4301.153NLT | 15 | 1.34 | 89.7 | 7.2 x 7.2 x 3 |
| PA4301.183NLT | 18 | 1.21 | 93.6 | 7.2 x 7.2 x 3 |
| PA4301.223NLT | 22 | 1.1 | 122.2 | 7.2 x 7.2 x 3 |
| PA4301.283NLT | 27 | 1.02 | 131.3 | 7.2 x 7.2 x 3 |
| PA4301.333NLT | 33 | 0.918 | 159.9 | 7.2 x 7.2 x 3 |
| PA4301.393NLT | 39 | 0.835 | 195 | 7.2 x 7.2 x 3 |
| PA4301.473NLT | 47 | 0.745 | 234 | 7.2 x 7.2 x 3 |
| PA4301.563NLT | 56 | 0.685 | 273 | 7.2 x 7.2 x 3 |
| PA4301.683NLT | 68 | 0.607 | 364 | 7.2 x 7.2 x 3 |
| PA4301.823NLT | 82 | 0.57 | 403 | 7.2 x 7.2 x 3 |
| PA4301.104NLT | 100 | 0.52 | 507 | 7.2 x 7.2 x 3 |
| PA4301.124NLT | 120 | 0.45 | 676 | 7.2 x 7.2 x 3 |
| PA4301.154NLT | 150 | 0.41 | 806 | 7.2 x 7.2 x 3 |
| PA4301.184NLT | 180 | 0.38 | 949 | 7.2 x 7.2 x 3 |
| PA4301.224NLT | 220 | 0.35 | 1110 | 7.2 x 7.2 x 3 |
| PA4301.274NLT | 270 | 0.31 | 1560 | 7.2 x 7.2 x 3 |
| PA4301.334NLT | 330 | 0.285 | 1700 | 7.2 x 7.2 x 3 |
| PA4301.394NLT | 390 | 0.253 | 1950 | 7.2 x 7.2 x 3 |
| PA4301.474NLT | 470 | 0.23 | 2730 | 7.2 x 7.2 x 3 |
| PA4301.564NLT | 560 | 0.22 | 2990 | 7.2 x 7.2 x 3 |
| PA4301.684NLT | 680 | 0.193 | 3510 | 7.2 x 7.2 x 3 |

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 for values between 1uH and 8.2uH and at 1kHz, 250mV for values between 10uH and 680uH.
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 25C.
4. The temperature of the component (ambient plus temperature rise) must be within the stated operating temperature.

Shielded Drum Core Inductor

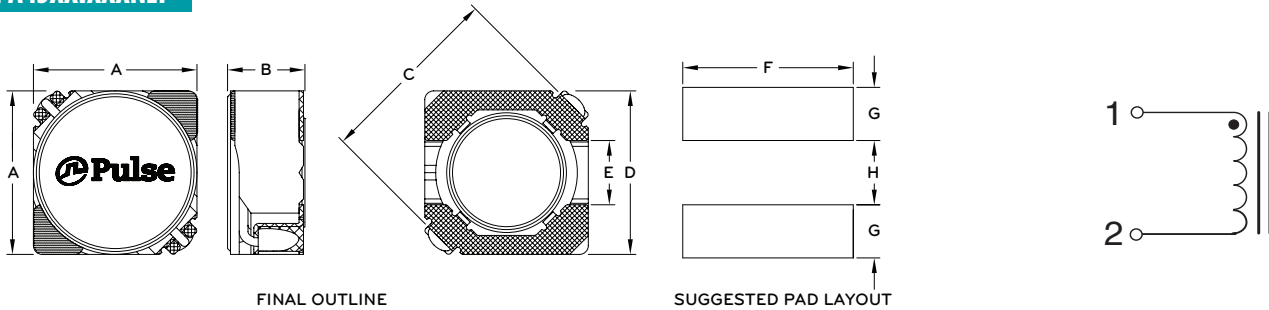
PA4300.XXXNLT & PA4301.XXXNLT Series



Mechanical

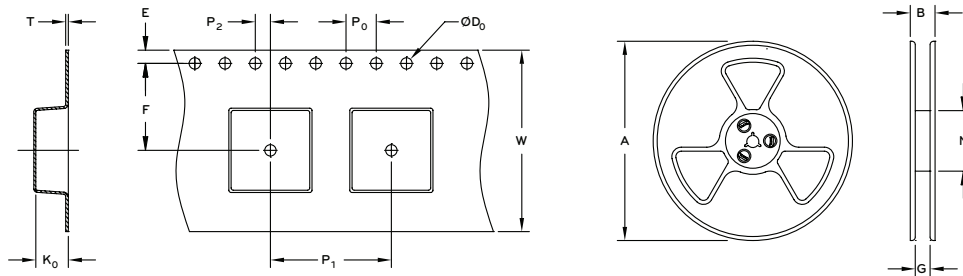
Schematic

PA43XX.XXXNLT



| Part Number | A (max) | B (max) | C (max) | D | E | F | G | H |
|---------------|---------|---------|---------|-------|-------|-------|--------|-------|
| PA4300.XXXNLT | 6.1 | 3.0 | 8.2 | (5.5) | (2.0) | (6.3) | (2.15) | (2.0) |
| PA4301.XXXNLT | 7.2 | 3.0 | 9.7 | (6.5) | (2.0) | (7.3) | (2.65) | (2.0) |

TAPE & REEL INFO



SURFACE MOUNTING TYPE, REEL/TAPE LIST

| TYPE | REEL SIZE (mm) | | | | TAPE SIZE (mm) | | | | | | | | | QTY PCS/REEL |
|---------------|----------------|----|------|-----|----------------|-----|-----|----|----|----|----|------|-----|-----------------|
| | A | B | G | N | E | F | Do | P | P0 | P2 | W | T | Ko | |
| PA4300.XXXNLT | Ø330 | 21 | 16.5 | 100 | 1.75 | 5.5 | 1.5 | 8 | 4 | 2 | 16 | 0.30 | 3.3 | 2000 |
| PA4301.XXXNLT | Ø330 | 21 | 16.5 | 100 | 1.75 | 7.5 | 1.5 | 12 | 4 | 2 | 16 | 0.30 | 3.2 | 1000 |

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