PF0581.334NLT Datasheet

DiGi Electronics Part Number	PF0581.334NLT-DG
Manufacturer	Pulse Electronics
Manufacturer Product Number	PF0581.334NLT
Description	FIXED IND 330UH 420MA 1.1OHM SMD
Detailed Description	330 µH Unshielded Wirewound Inductor 420 mA 1.1Ohm Max Nonstandard

Tel: +00 852-30501935

RFQ Email: Info@DiGi-Electronics.com

Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
PF0581.334NLT	Pulse Electronics
Series:	Product Status:
PF0581NL	Active
Type:	Material - Core:
Wirewound	-
Inductance:	Tolerance:
330 µH	±10%
Current Rating (Amps):	Current - Saturation (Isat):
420 mA	420mA
Shielding:	DC Resistance (DCR):
Unshielded	1.1Ohm Max
Q @ Freq:	Frequency - Self Resonant:
-	-
Ratings:	Operating Temperature:
-	-40°C ~ 125°C
Features:	Mounting Type:
-	Surface Mount
Package / Case:	Supplier Device Package:
Nonstandard	-
Size / Dimension:	Height - Seated (Max):
0.406" L x 0.367" W (10.32mm x 9.32mm)	0.174" (4.42mm)

Environmental & Export classification

RoHS Status:	Moisture Sensitivity Level (MSL):
ROHS3 Compliant	1 (Unlimited)
REACH Status:	ECCN:
REACH Unaffected	EAR99
HTSUS:	
8504.50.4000	

SMT Power Inductors

Unshielded Drum Core - PF0581NL Series

- ***Height:*** *4.42mm Max*
- ***Footprint:*** *10.32mm Typ x 9.32mm Max*
- ***Current Rating:*** *up to 2.5A*
- ***Inductance Range:*** *10µH to 560µH*
- *260°C reflow peak temperature qualified*

Electrical Specifications @ 25°C - Operating Temperature -40°C to +125°C[6]						
Part[5] Number	Inductance[1] @ Irated (µH TYP)	Irated[2] (A)	DCR (MAX) (mΩ MAX)	Inductance @ 0ADC (µH ± 15%)	Saturation Current[3] ISAT (A)	Heating Current[4] IDC (A)
PF0581.103NL	9.5	2.50	43	10	2.50	3.25
PF0581.123NL	11	2.30	48	12	2.30	3.15
PF0581.153NL	14	2.00	60	15	2.00	2.70
PF0581.183NL *	17	1.90	66	18	1.90	2.50
PF0581.223NL	21	1.70	84	22	1.70	2.25
PF0581.273NL *	26	1.50	96	27	1.50	2.05
PF0581.333NL	31	1.30	115	33	1.30	1.90
PF0581.393NL	37	1.20	151	39	1.20	1.73
PF0581.473NL	45	1.10	166	47	1.10	1.65
PF0581.563NL	53	1.00	199	56	1.00	1.52
PF0581.683NL	65	0.93	233	68	0.93	1.37
PF0581.823NL	78	0.85	262	82	0.85	1.29
PF0581.104NL	95	0.76	333	100	0.76	1.16
PF0581.124NL	110	0.70	376	120	0.70	1.10
PF0581.154NL	140	0.63	500	150	0.63	0.97
PF0581.184NL *	170	0.56	620	180	0.56	0.84
PF0581.224NL	210	0.53	721	220	0.53	0.79
PF0581.274NL *	260	0.46	949	270	0.46	0.68
PF0581.334NL	310	0.42	1100	330	0.42	0.63
PF0581.394NL	370	0.39	1245	390	0.39	0.60
PF0581.474NL	450	0.35	1526	470	0.35	0.53
PF0581.564NL	530	0.32	1870	560	0.32	0.51

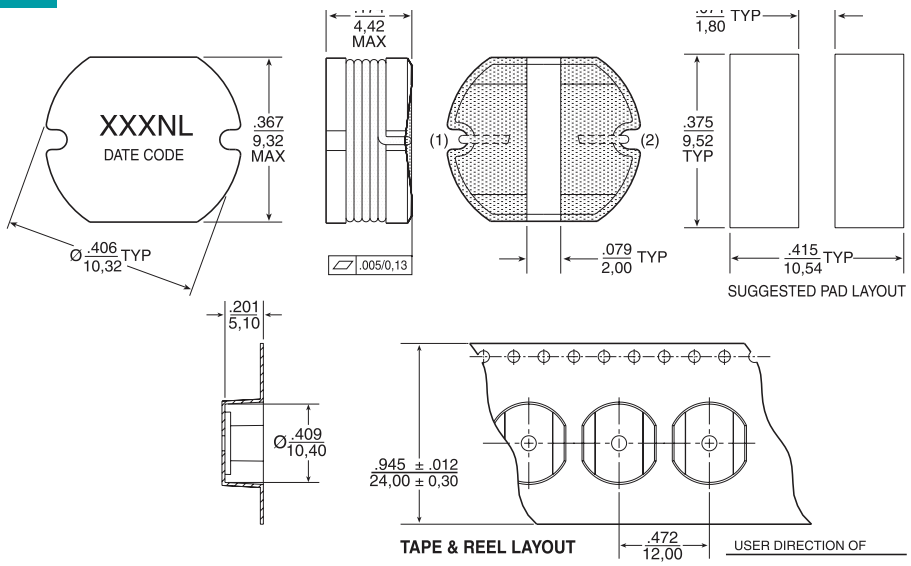
SMT Power Inductors

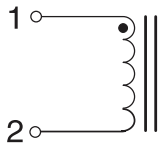
Unshielded Drum Core - PF0581NL Series

Mechanical

Schematic

PF0581.XXXNL





Weight .....1.2 grams
Tape & Reel 900/reel
Dimensions: Inches / mm

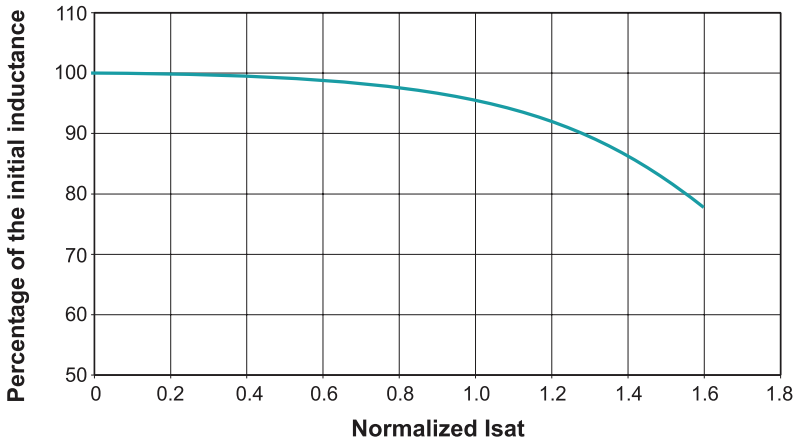
Unless otherwise specified, all tolerances are ± .004 / 0,10

Notes from Tables:

1. Inductance at Irated is a typical inductance value measured when the inductor is subjected to the rated current.
2. The rated current listed is the lower of the saturation current @ 25°C or the heating current.
3. The saturation current, Isat, is the current at which the component inductance drops by 20% (maximum) at an ambient temperature of 25°C. This current is determined by placing the component in the specified ambient environment and applying a short duration pulse current (to eliminate self-heating effects) to the component.
4. The heating current, I_{DC}, is the DC current required to raise the component temperature by approximately 45°C. The heating current is determined by mounting the component on a typical PCB and applying current for 30 minutes.
5. Optional Tape & Reel packaging can be ordered by adding a "**T**" suffix to the part number (i.e. PF0581.103NL becomes PF0581.103NL**T**). Pulse complies to industry standard tape and reel specification EIA481.
6. The temperature of the component (ambient plus temperature rise) must be within the stated operating temperature range.

* Contact Pulse for availability

Typical Inductance vs Current Characteristics



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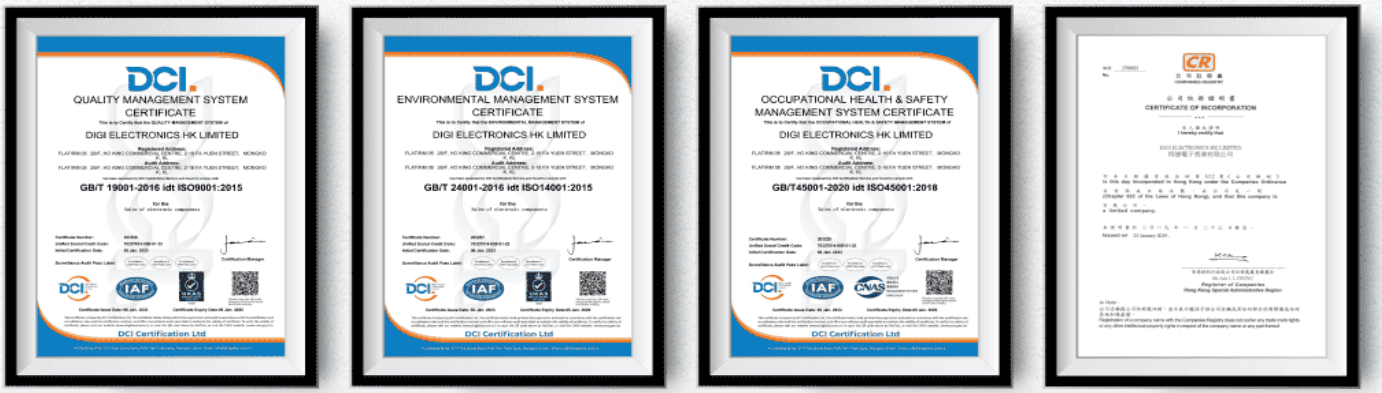

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