PG0426.151NLT Datasheet

DiGi Electronics Part Number	PG0426.151NLT-DG
Manufacturer	Pulse Electronics
Manufacturer Product Number	PG0426.151NLT
Description	FIXED IND 150NH 26A 2.2 MOHM SMD
Detailed Description	150 nH Shielded Wirewound Inductor 26 A 2.2mOhm Max Nonstandard

Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
PG0426.151NLT	Pulse Electronics
Series:	Product Status:
PG0426NL	Active
Type:	Material - Core:
Wirewound	-
Inductance:	Tolerance:
150 nH	±20%
Current Rating (Amps):	Current - Saturation (Isat):
26 A	57A
Shielding:	DC Resistance (DCR):
Shielded	2.2mOhm Max
Q @ Freq:	Frequency - Self Resonant:
-	-
Ratings:	Operating Temperature:
-	-40°C ~ 130°C
Inductance Frequency - Test:	Features:
100 kHz	-
Mounting Type:	Package / Case:
Surface Mount	Nonstandard
Supplier Device Package:	Size / Dimension:
-	0.295" L x 0.276" W (7.50mm x 7.00mm)
Height - Seated (Max):	
0.126" (3.20mm)	

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

Flat Coils - PG0426 Series

Pulse a YAGEO company

- *Height: 3.2mm Max*
- *Footprint: 7.5mm x 7.0mm Max*
- *Current Rating: 60Apk*
- *Inductance Range: 0.1µH to 1.5µH*
- *High temperature core material, no thermal aging below 150°C*

Electrical Specifications @ 25°C - Operating Temperature -40°C to +130°C[1]

Part Number	Inductance @ Irated (µH ±20%)	DCR (mΩ)		Saturation[2] Current Isat (A)	Heating[3] Current IDC (A)	Core Loss[4] Factor K2
		TYP	MAX			
PG0426.101NL	0.10	1.3	1.5	60	34.5	44.4
PG0426.151NL	0.15	2.0	2.2	57	26.0	40.0
PG0426.201NL	0.20	2.0	2.2	46	26.0	53.3
PG0426.221NL	0.22	2.0	2.2	40	26.0	58.6
PG0426.331NL	0.33	3.2	3.4	34	20.0	62.8
PG0426.471NL	0.47	3.2	3.4	26	20.0	89.4
PG0426.681NL	0.68	5.2	5.4	25	15.5	100.6
PG0426.821NL	0.82	7.8	8.0	24	13.0	99.3
PG0426.102NL	1.00	7.8	8.0	22	13.0	121.1
PG0426.152NL	1.50	11.5	11.8	18	9.0	153.6

Notes:

1. The temperature of the component (ambient plus temperature rise) must be within the specified operating temperature range.
2. The saturation current, ISAT, is the current at which the component inductance drops by 30% (typical) 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.
3. The heating current, IDC, is the DC current required to raise the component temperature by approximately 40°C. The heating current is determined by mounting the component on a typical PCB and applying current for 30 minutes. The temperature is measured by placing the thermocouple on top of the unit under test. 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.
4. Core loss approximation is based on published core data:

   Core Loss = $K1 * (f)^{1.33} * (K2\Delta I)^{2.51}$

   Where: Core Loss = in Watts

   f = switching frequency in kHz

   K1 & K2 = core loss factors

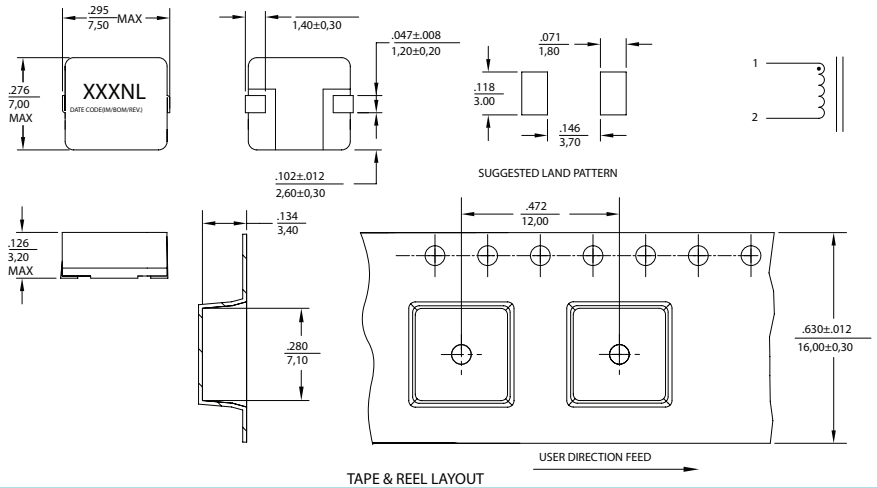
   ΔI = delta I across the component in Ampere

   K2ΔI = one half of the peak to peak flux density across the component in Gauss
5. Unless otherwise specified, all testing is made at 100kHz, $0.1V_{AC}$.
6. Optional Tape & Reel packaging can be ordered by adding a "**T**" suffix to the part number (i.e. PG0426.101NL becomes PG0426.101NL**T**). Pulse complies to industry standard tape and reel specification EIA481.

Mechanical

Schematic

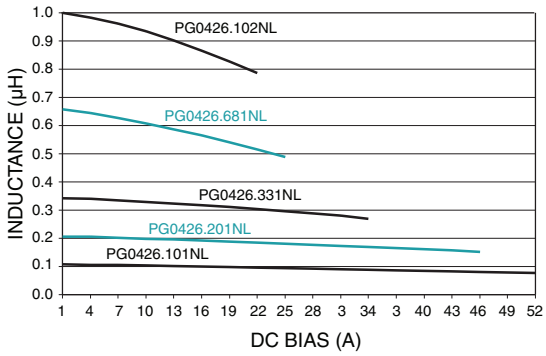
PG0426.XXXNL



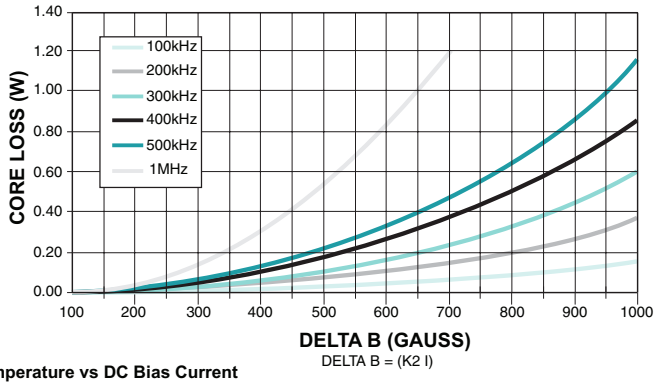
TAPE & REEL LAYOUT

Chart

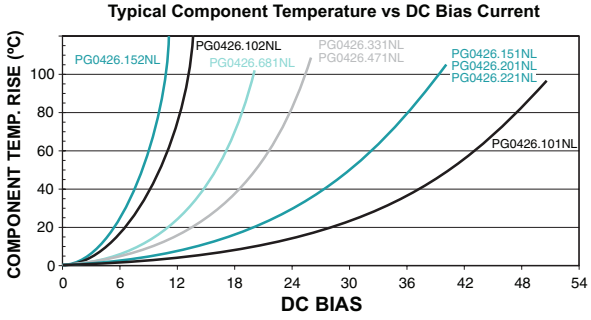
Inductance vs Current Characteristics



Typical Core Loss vs Peak Flux Density



Typical Component Temperature vs DC Bias Current



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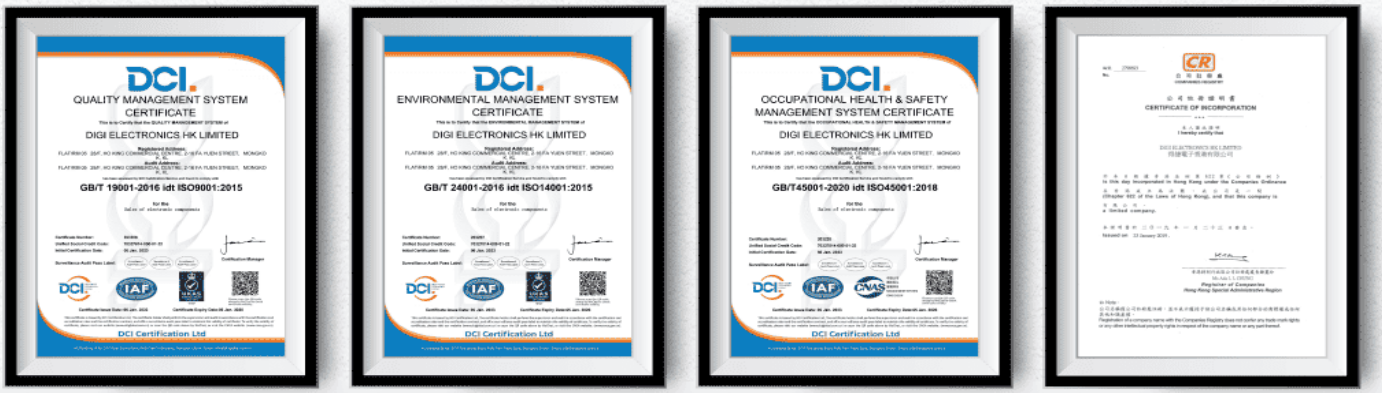

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