PE-51518NL Datasheet

https://www.DiGi-Electronics.com

DiGi Electronics Part Number	PE-51518NL-DG
Manufacturer	Pulse Electronics
Manufacturer Product Number	PE-51518NL
Description	FIXED IND 335UH 6A 95 MOHM TH
Detailed Description	335 µH Unshielded Toroidal Inductor 6 A 95mOhm Max Radial, Vertical, 4 Leads (Open)

Tel: +00 852-30501935

RFQ Email: Info@DiGi-Electronics.com

Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
PE-51518NL	Pulse Electronics
Series:	Product Status:
-	Active
Type:	Material - Core:
Toroidal	-
Inductance:	Tolerance:
335 µH	-
Current Rating (Amps):	Current - Saturation (Isat):
6 A	-
Shielding:	DC Resistance (DCR):
Unshielded	95mOhm Max
Q @ Freq:	Frequency - Self Resonant:
-	-
Ratings:	Operating Temperature:
-	-40°C ~ 130°C
Inductance Frequency - Test:	Features:
50 kHz	-
Mounting Type:	Package / Case:
Through Hole	Radial, Vertical, 4 Leads (Open)
Supplier Device Package:	Size / Dimension:
-	2.300" L x 1.110" W (58.42mm x 28.19mm)
Height - Seated (Max):	
2.300" (58.42mm)	

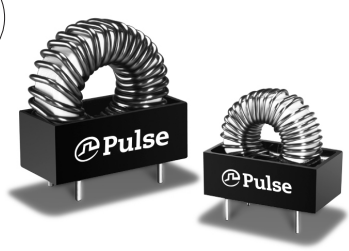
Environmental & Export classification

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

Toroidal Inductors

High Current

Pulse a YAGEO company



- *Cost-effective designs*
- *Semi-encapsulated construction*
- *Maximum operation temperature of 130˚C (Ambient + Rise)*
- *A 2:1 inductance swing from zero to maximum current*

Electrical Speficiations @ 25˚C

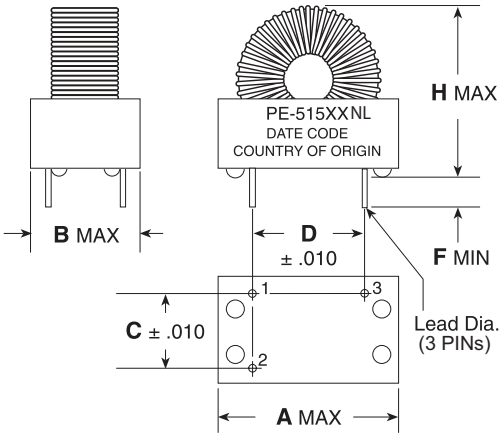
Part Number	Reference Operating Values: Inductance Typical (µH)[2]	Reference Operating Values: I_{DC} (AMPS)	Reference Operating Values: ET_{OP}[1] (V-µSec) 20kHz	Reference Operating Values: ET_{OP}[1] (V-µSec) 40kHz	Reference Operating Values: Energy Storage (µJ MIN)[3]	Design Control Values: Inductance No DC (µH) (±20%)	Design Control Values: 50kHz Test mV No DC5	Design Control Values: DCR (Ω MAX)	Design Control Values: Size Code	Design Control Values: Lead Diameter (in ±.003)
PE-51506NL	17.0	17.0	190	130	2460	40.0	140	0.0065	3	0.081
PE-51507NL	32.0	16.0	290	200	4100	70.7	270	0.0092	4	0.081
PE-51508NL	60.0	16.0	390	270	7700	120.0	470	0.012	5	0.081
PE-51509NL	14.0	10.0	135	95	700	28.5	73	0.009	1	0.057
PE-51510NL	23.0	11.0	170	120	1400	43.5	130	0.012	2	0.057
PE-51511NL	43.0	10.0	280	195	2150	85.5	210	0.018	3	0.057
PE-51512NL	90.0	10.0	430	300	4500	158.0	420	0.028	4	0.057
PE-51513NL	144.0	10.0	570	400	7200	262.0	700	0.032	5	0.040
PE-51514NL	32.0	6.6	200	140	700	60.5	110	0.025	1	0.040
PE-51515NL	52.0	7.0	230	160	1275	92.0	190	0.032	2	0.040
PE-51516NL	98.0	6.0	400	280	1765	188.0	310	0.048	3	0.040
PE-51517NL	175.0	6.0	620	425	3150	315.0	560	0.068	4	0.040
PE-51518NL	335.0	6.0	840	580	6030	571.0	1000	0.095	5	0.040
PE-51520NL	400	3.6	600	420	2700	688.0	640	0.130	3	0.036

Notes:

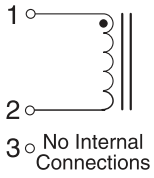
1. To prevent excessive temperature rise, limite ET_{OP} to the rated ET_{OP} specified. This is not a saturation limit. Temperature rise of inductors is 40 ˚ C MAX at MAX current and rated ET_{OP}.
2. A 2:1 nominal inductance swing from no I_{DC} to operating I_{DC} gives improved protection against current discontinuities at light loading. Inductance increases with great ET_{OP}. Reference values occur at I_{DC} and low flux density.
3. $\frac{LI^2}{2}$ rating is the ability of the inductor to store energy.
4. Design control test voltage is critical. Inductance increases with voltage.

Size Code	1	2	3	4	5
A	1.20/30,48	1.44/36,57	1.60/40,64	1.95/49,53	2.30/58,42
B	0.60/15,24	0.80/20,32	0.80/20,32	0.91/23,11	1.11/28,19
C	0.40/10,16	0.60/15,24	0.60/15,24	0.70/17,78	0.90/22,85
D	0.80/20,32	0.90/22,86	0.90/22,86	1.20/30,48	1.50/38,10
F	0.20/5,08	0.20/5,08	0.20/5,08	0.20/5,08	0.20/5,08
H	1.20/30,48	1.44/36,57	1.72/43,68	2.00/50,80	2.30/58,42

Mechanical



Schematic



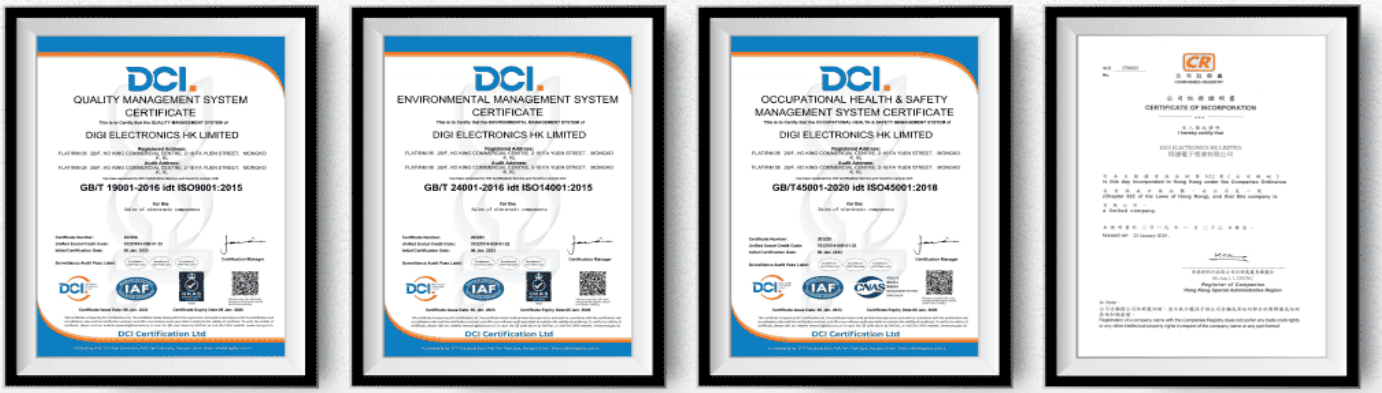
Dimensions: Inches / mm
Unless otherwise specified, all tolerances are: ±.010 / 0,25

For More Information:

Americas - prodinfo_power@pulseelectronics.com | **Europe -** power-apps-europe@pulseelectronics.com | **Asia -** power-apps-asia@pulseelectronics.com

OUR CERTIFICATE

DiGi provide top-quality products and perfect service for customer worldwide through standardization, technological innovation and continuous improvement. DiGi through third-party certification, we striciy control the quality of products and services. Welcome your RFQ to Email: Info@DiGi-Electronics.com



Tel: +00 852-30501935

RFQ Email: Info@DiGi-Electronics.com

DiGi is a global authorized distributor of electronic components.