

PG0016.682NL Datasheet



https://www.DiGi-Electronics.com

DiGi Electronics Part Number PG0016.682NL-DG

Manufacturer Pulse Electronics

Manufacturer Product Number PG0016.682NL

Description FIXED IND 6.8UH 1.8A 55 MOHM SMD

Detailed Description 6.8 µH Unshielded Wirewound Inductor 1.8 A 55mO

hm 2420 (6050 Metric)



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:	Manufacturer:		
PG0016.682NL	Pulse Electronics		
Series:	Product Status:		
PG0016NL	Active		
Type:	Material - Core:		
Wirewound			
Inductance:	Tolerance:		
6.8 µH	±15%		
Current Rating (Amps):	Current - Saturation (Isat):		
1.8 A	2.9A		
Shielding:	DC Resistance (DCR):		
Unshielded	55mOhm		
Q @ Freq:	Frequency - Self Resonant:		
Ratings:	Operating Temperature:		
	-40°C ~ 130°C		
Features:	Mounting Type:		
	Surface Mount		
Package / Case:	Supplier Device Package:		
2420 (6050 Metric)			
Size / Dimension:	Height - Seated (Max):		
0.236" L x 0.213" W (6.00mm x 5.40mm)	0.191" (4.85mm)		

Environmental & Export classification

8504.50.8000

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

SMT POWER INDUCTORS

Unshielded Drum Core - PG0016NL Series





Current Rating: up to 8.5A

Inductance Range: 0.33μH to 220μH

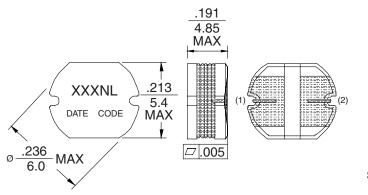
• Height: 4.85 mm Max

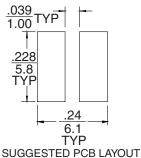
• Footprint: 6.0mm x 5.4mm MAX

Electrical Specifications @ 25°C — Operating Temperature -40°C to +130°C 6								
Part ⁵ Number	Inductance @Irated ¹ (µH TYP)	Irated ² (A)	DCR (mΩ)	Inductance @ 0Adc (µH ± 15%)	Saturation Current ³ Isat (A TYP)	Heating Current ⁴ Idc (A TYP)		
PG0016.331NL	0.29	8.5	4.3	0.33	13	8.5		
PG0016.561NL	0.48	6.6	6.5	0.56	10	6.6		
PG0016.681NL	0.68	6.0	7.0	0.68	8.0	6.0		
PG0016.821NL	0.71	6.0	11	0.82	7.8	6.0		
PG0016.102NL	1.0	4.5	13	1.0	6.8	4.5		
PG0016.152NL	1.3	4.0	16	1.5	6.1	4.0		
PG0016.222NL	2.1	3.2	23	2.2	5.0	3.2		
PG0016.272NL	2.7	2.9	25	2.7	4.2	2.9		
PG0016.332NL	3.1	2.6	30	3.3	4.0	2.6		
PG0016.472NL	4.2	2.3	34	4.7	3.3	2.3		
PG0016.682NL	6.1	1.8	55	6.8	2.9	1.8		
PG0016.822NL	7.4	1.7	60	8.2	2.6	1.7		
PG0016.103NL	10	1.5	80	10	2.3	1.5		
PG0016.123NL	12	1.4	120	12	2.1	1.4		
PG0016.153NL	14	1.3	140	15	1.8	1.3		
PG0016.183NL	18	1.2	150	18	1.6	1.2		
PG0016.223NL	21	1.1	180	22	1.6	1.1		
PG0016.273NL	27	0.97	200	27	1.4	0.97		
PG0016.333NL	33	0.88	230	33	1.3	0.88		
PG0016.393NL	39	0.80	320	39	1.1	0.80		
PG0016.473NL	46	0.72	370	47	1.0	0.72		
PG0016.563NL	56	0.68	420	56	0.95	0.68		
PG0016.683NL	68	0.61	530	68	0.80	0.61		
PG0016.823NL	82	0.58	600	82	0.70	0.58		
PG0016.104NL	100	0.52	840	100	0.70	0.52		
PG0016.124NL	120	0.48	930	120	0.60	0.48		
PG0016.154NL	150	0.40	1250	150	0.55	0.40		
PG0016.184NL	180	0.38	1400	180	0.50	0.38		
PG0016.224NL	217	0.35	1600	220	0.50	0.35		

Mechanical

Schematic





1 0 0

Weight 0.46 grams Tape & Reel 1400pcs/reel

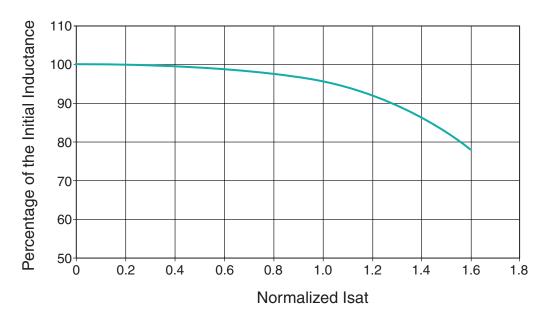
SMT POWER INDUCTORS Unshielded Drum Core – PG0016NL Series



NOTES:

- Inductance at Irated is a typical inductance value for the component taken at rated current.
- 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 10% (typ.) 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, IDC, is the DC current reqired 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.
- Optional Tape & Reel packaging can be ordered by adding a "T" suffix to the part number (i.e. PG0016.331NL becomes PG0016.331NLT). 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.

Typical Inductance vs. Current Characteristics



For More Information:

Pulse Worldwide Pulse Europe Pulse China Headquarters Pulse North China Pulse South Asia Pulse North Asia Headquarters B402, Shenzhen Academy of Room 1503 135 Joo Seng Rd. No. 26, Kao Ching Rd. Einsteinstrasse 1 12220 World Trade Dr. D-71083 Herrenberg Aerospace Technology Bldg. XinYin Building #03-02 Yang Mei Chen No. 888 YiShan Rd. San Diego, CA 92128 Germany 10th Kejinan Rd. PM Industrial Bldg. Taoyuan Hsien High-Tech Zone Shanghai 200233 U.S.A. Singapore 368363 Taiwan R. O. C. Nanshan District China Shenzen, PR China 518057 www.pulseeng.com Tel: 858 674 8100 Tel: 49 7032 7806 0 TEL: 86 755 33966678 Tel: 86 21 54643211/2 TFI: 65 6287 8998 Tel: 886 3 4643715 Fax: 858 674 8262 Fax: 49 7032 7806 135 FAX: 86 755 33966700 Fax: 86 21 54643210 FAX: 65 6280 0080 Fax: 886 3 4641911

Performance warranty of products offered on this data sheet is limited to the parameters specified. Data is subject to change without notice. Other brand and product names mentioned herein may be trademarks or registered trademarks of their respective owners.

© Copyright, 2009. Pulse Engineering, Inc. All rights reserved.

www.pulseeng.com P683.A (5/09)



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