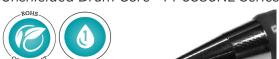
SMT Power Inductors

Unshielded Drum Core - PF0580NL Series







Height: 3.48mm Max

Pootprint: 4.7mm Typ x 4.2mm Max

Current Rating: up to 3.1A

P Inductance Range: 1μH to 65μH

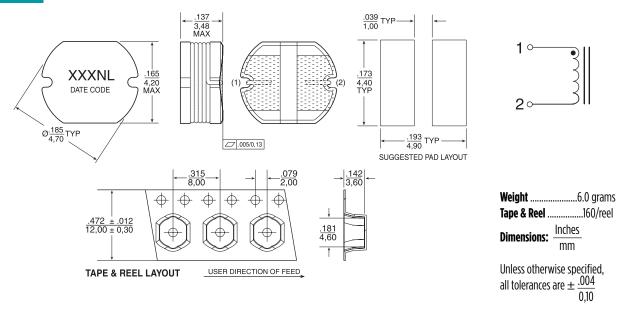
@ 260°C reflow peak temperature qualified

Electrical Specifications @ 25°C – Operating Temperature –40°C to +125°C ⁶									
Part⁵ Number	Inductance ¹ @ Irated (µH TYP)	Irated² (A)	DCR (MAX) (mΩ MAX)	Inductance @ 0A ₀c (µH ± 15%)	Saturation Current ³ ISAT (A)	Heating Current ⁴ loc (A)			
PF0580.102NL	1.0	3.1	35	1.0	3.6	3.1			
PF0580.152NL	1.4	2.7	40	1.5	2.7	2.7			
PF0580.182NL *	1.7	2.4	45	1.8	2.4	2.6			
PF0580.222NL	2.1	2.2	49	2.2	2.2	2.4			
PF0580.272NL *	2.6	2.0	58	2.7	20	2.3			
PF0580.332NL	3.1	1.8	63	3.3	1.8	2.25			
PF0580.382NL	3.6	1.7	68	3.8	1.7	2.2			
PF0580.472NL	4.5	1.6	77	4.7	1.6	2.0			
PF0580.562NL	5.3	1.4	90	5.6	1.4	1.9			
PF0580.682NL	6.5	1.3	100	6.8	1.3	1.8			
PF0580.822NL	7.8	1.2	111	8.2	1.2	1.6			
PF0580.103NL	9.5	1.1	132	10	1.1	1.5			
PF0580.123NL	11	1.0	160	12	1.0	1.4			
PF0580.153NL	14	0.85	197	15	0.85	1.3			
PF0580.183NL *	17	0.80	255	18	0.80	1.1			
PF0580.223NL	21	0.75	280	22	0.75	1.0			
PF0580.273NL*	26	0.65	384	27	0.65	0.90			
PF0580.333NL	31	0.58	427	33	0.58	0.85			
PF0580.393NL	37	0.55	490	39	0.55	0.80			
PF0580.473NL	45	0.50	645	47	0.50	0.70			
PF0580.563NL	53	0.46	700	56	0.46	0.67			
PF0580.683NL	65	0.41	827	68	0.41	0.62			



Mechanical Schematic

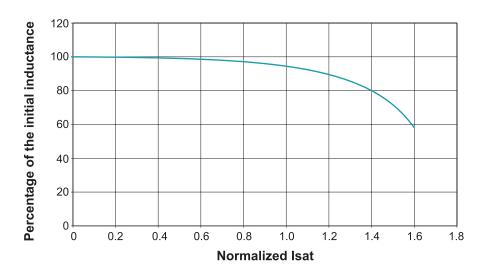
PF0580.XXXNL



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, loc, 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.
- Optional Tape & Reel packaging can be ordered by adding a "T" suffix to the part number (i.e. PF0504.681NL becomes PF0504.681NLT). 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



power.pulseelectronics.com

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^{*} Contact Pulse for availability

SMT Power Inductors

Unshielded Drum Core - PF0580NL Series



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For 1	More	Inform	ation

TOT WOTE IIIOTIIadolf									
Pulse Europe Pulse Electronics GmbH Am Rottland 12 58540 Meinerzhagen Germany	Pulse China Headquarters Pulse Electronics (ShenZhen) CO., LTD D708, Shenzhen Academy of Aerospace Technology, The 10th Keji South Road, Nanshan District, Shenzhen, P.R. China 518057	Pulse North China Room 2704/2705 Super Ocean Finance Ctr. 2067 Yan An Road West Shanghai 200336 China	Pulse South Asia 3 Fraser Street 0428 DUO Tower Singapore 189352	Pulse North Asia 1F., No.111 Xiyuan Road Zhongli District Taoyuan City 32057 Taiwan (R.O.C)					
Tel: 49 2354 777 100 Fax: 49 2354 777 168	Tel: 86 755 33966678 Fax: 86 755 33966700	Tel: 86 21 62787060 Fax: 86 2162786973	Tel: 65 6287 8998 Fax: 65 6280 0080	Tel: 886 3 4356768 Fax: 886 3 4356820					
	Pulse Europe Pulse Electronics GmbH Am Rottland 12 58540 Meinerzhagen Germany Tel: 49 2354 777 100	Pulse Europe Pulse Electronics GmbH Am Rottland 12 58540 Meinerzhagen Germany Pulse Electronics (ShenZhen) CO., LTD D708, Shenzhen Academy of Aerospace Technology, The 10th Keji South Road, Nanshan District, Shenzhen, P.R. China 518057 Tel: 49 2354 777 100 Tel: 86 755 33966678	Pulse Europe Pulse Electronics GmbH Am Rottland 12 58540 Meinerzhagen Germany Pulse China Headquarters Pulse Electronics (ShenZhen) CO., LTD D708, Shenzhen Academy of Aerospace Technology, The 10th Keji South Road, Nanshan District, Shenzhen, P.R. China 518057 Pulse North China Room 2704/2705 Super Ocean Finance Ctr. 2067 Yan An Road West Shanghai 200336 China Tel: 49 2354 777 100 Tel: 86 755 33966678 Tel: 86 21 62787060	Pulse EuropePulse China HeadquartersPulse North ChinaPulse South AsiaPulse Electronics GmbH Am Rottland 12Pulse Electronics (ShenZhen) CO., LTD D708, Shenzhen Academy of Aerospace Technology, The 10th Keji South Road, Nanshan District, Shenzhen, PRR. China 518057Pulse North ChinaPulse South Asia 3 Fraser Street 0428 DUO Tower Singapore 189352Tel: 49 2354 777 100Tel: 86 755 33966678Tel: 86 21 62787060Tel: 65 6287 8998					

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