SMT Power Inductors

Unshielded Drum Core - PF0504NL Series







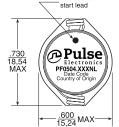
- *•* **Height:** 11.43 Max
- *•* **Footprint:** 18.54mm x 15.24mm Max
- *Current Rating:* up to 20A
- *P* Inductance Range: 0.68μH to 150μH
- @ 260°C reflow peak temperature qualified
- *^(P)* Leaded technology compatible

-<u>.110</u>REF

SPM2007_12 (02/19) http://www.power.pulseelectronics.com/contact

Electrical Specifications @ 25°C – Operating Temperature -40°C to +125°C ⁶									
Part ⁵ Number	Inductance ¹ @ Irated (μ H \pm 15%)	lrated ² (A)	DCR (MAX) (mΩ)	Inductance @ 0A _{DC} (μH ± 20%)	Saturation Current ³ Isar (A)	Heating Current ⁴ I _{DC} (A)			
PF0504.681NL	0.68	20.0	2.0	0.68	64	20.0			
PF0504.122NL	1.2	17.1	2.6	1.2	48	17.7			
PF0504.222NL	2.2	14.7	3.7	2.2	35	14.7			
PF0504.332NL	3.3	13.7	4.3	3.3	29	13.7			
PF0504.392NL	3.9	11.7	6.7	3.9	26	11.7			
PF0504.472NL	4.7	10.8	6.9	4.7	24	10.8			
PF0504.682NL	6.8	9.0	9.8	6.8	20	9.0			
PF0504.103NL	10	7.1	15	10	16	7.1			
PF0504.183NL	18	6.0	25	18	13	6.0			
PF0504.223NL	22	5.4	27	22	11	5.4			
PF0504.333NL	33	4.4	42	33	9	4.4			
PF0504.403NL	40	4.0	50	40	8	4.0			
PF0504.473NL	47	3.5	55	47	7	3.5			
PF0504.104NL	100	2.3	153	100	5	2.3			
PF0504.154NL	150	2	200	150	4	2			

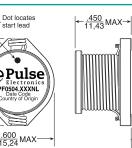
PF0504.XXXNL



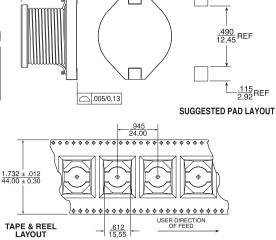
.742 18,85

power.pulseelectronics.com

<u>.522</u> 13,25



Mechanical







Weight6.0 grams Tape & Reel160/reel Dimensions: Inches mm

Unless otherwise specified, all tolerances are $\pm \frac{.004}{.004}$ 0.10

1

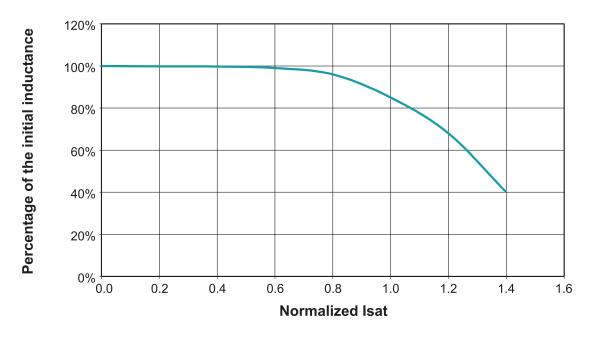
SMT Power Inductors

Unshielded Drum Core - PF0504NL Series



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 $^{\circ}\mathrm{C}$ 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.



Inductance vs Current Characteristics

Pulse Worldwide Headquarters 15255 Innovation Drive Ste 100 San Diego, CA 92128 U.S.A.	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 Roac Zhongli District Taoyuan City 32057 Taiwan (R.O.C)
Tel: 858 674 8100	Tel: 49 2354 777 100	Tel: 86 755 33966678	Tel: 86 21 62787060	Tel: 65 6287 8998	Tel: 886 3 4356768
Fax: 858 674 8262	Fax: 49 2354 777 168	Fax: 86 755 33966700	Fax: 86 2162786973	Fax: 65 6280 0080	Fax: 886 3 4356820

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, 2019. Pulse Electronics, Inc. All rights reserved.

2

单击下面可查看定价,库存,交付和生命周期等信息

>>Pulse(普思)