imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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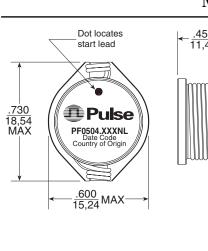
SMT POWER INDUCTORS Unshielded Drum Core - PF0504NL Series



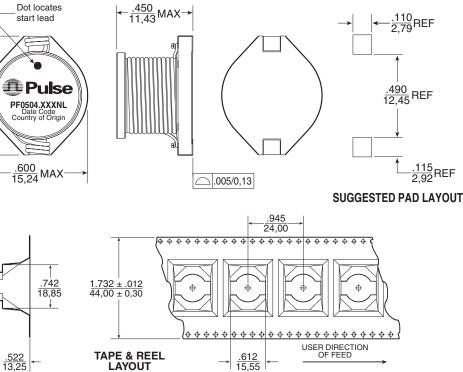


- Height: 11.43mm Max
- Footprint: 18.54mm x 15.24mm Max
- Current Rating: up to 20A
- Inductance Range: 0.68µH to 150µH
- 260°C reflow peak temperature qualified **D**
- Leaded technology compatible

Electrical Specifications @ 25°C — Operating Temperature -40°C to +125°C ⁶						
Part ⁵ Number	Inductance ¹ @ Irated (µH TYP)	Irated ² (A)	DCR (mΩ MAX)	Inductance @ 0Α _D c (μH ±20%)	Saturation Current ³ Isat (A)	Heating Current ⁴ IDC (A)
PF0504.681NL	0.68	20.0	2.0	0.68	64	20.0
PF0504.122NL	1.2	17.7	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



Mechanical

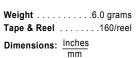


Schematic

•)

10

20



Unless otherwise specified, all tolerances are ± .004 0.10

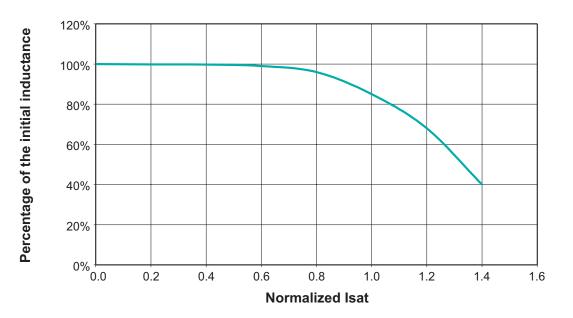
USA 858 674 8100 • Germany 49 7032 7806 0 • Singapore 65 6287 8998 • Shanghai 86 21 54643211 / 2 • China 86 755 33966678 • Taiwan 886 3 4641811

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°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, 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.
- 5. 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