



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

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

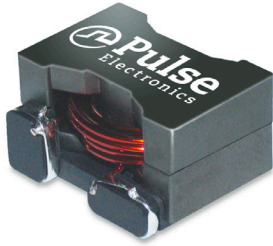
Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



SMT POWER INDUCTORS

Wire Wound



- Current Rating:** Over 22Apk
- Finish is Tin/Lead** (Sn63/Pb37)
- MSL:** 1
- Max Reflow Temperature:** 235°C

Electrical Specifications @ 25°C — Operating Temperature -55°C to +130°C

Part Number	Inductance @0Adc (μH±10%)	Inductance @Irated (μH TYP)	Irated ¹ (Adc)	DCR (mΩ ±10%)	Saturation ² Current Isat (A TYP)		Heating Current Ibc (A TYP)	Core Loss Factor KZ
					25°C	100°C		
PL2058	10.2	10.2	12.5	5.8	16	15	12.5	206

Notes:

- The rated current as listed is either the saturation current or the heating current depending on which value is lower.
- The saturation current is the typical current which causes the inductance to drop by 20% at the stated ambient temperatures (25°C and 100°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.
- The heating current is the DC current which causes the part temperature to increase by approximately 40°C.
- In high volt*time applications, additional heating in the component can occur due to

core losses in the inductor which may necessitate derating the current in order to limit the temperature rise of the component. To determine the approximate total losses (or temperature rise) for a given application, the coreloss and temperature rise formula can be used:

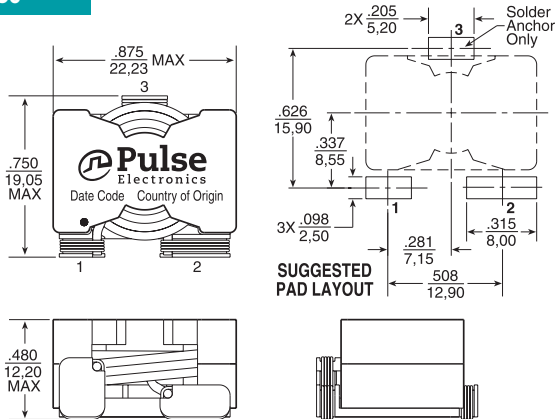
$$\Delta B \text{ (Gauss)} = KZ * \Delta I$$

$$\text{Core Loss (W)} = 1.5E-13 * (\text{Freq_kHz})^{1.65} * \Delta B^{2.62}$$

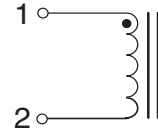
- The temperature of the component (ambient plus temperature rise) must be within the stated operating temperature range.
- RoHS compliant version available (add suffix NL to the part number).

Mechanicals

PL2058



Schematics



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

Weight: 13g ±4%
Height: 12.2mm Max
Footprint: 22.2 X 19.2mm Max

For More Information

Pulse North America Headquarters

Two Pearl Buck Court
Bristol, PA 19007
U.S.A.

Pulse Europe

Einsteinstrasse 1
D-71083 Herrenberg
Germany

Pulse China Headquarters

B402, Shenzhen Academy of
Aerospace Technology Bldg.
10th Kejinan Road
High-Tech Zone
Nanshan District
Shenzhen, PR China 518057
Tel: 86 755 33966678
Fax: 86 755 33966700

Pulse North China

Room 2704/2705
Super Ocean Finance Ctr.
2067 Yan An Road West
Shanghai 200336
China

Pulse South Asia

135 Joo Seng Road
#03-02
PM Industrial Bldg.
Singapore 368363

Pulse North Asia

3F, No. 198
Zhongyuan Road
Zhongli City
Taoyuan County 320
Taiwan R. O. C.
Tel: 886 3 4356768
Fax: 886 3 4356823 (Pulse)
Fax: 886 3 4356820 (FRE)

Tel: 215 781 6400
Fax: 215 781 6403

Tel: 49 7032 7806 0
Fax: 49 7032 7806 135

Tel: 86 21 62787060
Fax: 86 2162786973

Tel: 65 6287 8998
Fax: 65 6287 8998

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, 2013. Pulse Electronics, Inc. All rights reserved.