



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





## FEATURES

- RoHS compliant
- High current, low DCR
- Surface mount
- Pick & place compatible
- J-STD-020D reflow
- Backward compatible with Sn/Pb soldering systems

## DESCRIPTION

The 3700 series is a range of surface mount, flat-coil wound power inductors. They are ideally suited for use where high current and low loss is essential, such as in laptop computers and plasma screens.

## SELECTION GUIDE

Order Code	Inductance (100kHz, 0.1V <sub>AC</sub> )	DC Current <sup>1</sup>	Saturation Current <sup>2</sup>	DC Resistance	Height
	±10%	Max.	Typ.	Max.	
	μH	A	A	mΩ	
<b>37301C</b>	0.30 ±20%	19.5	39	0.9	A
<b>37501C</b>	0.50 ±20%	19.5	30	1.0	A
<b>37951C</b>	0.95 ±20%	18.0	25	1.3	B
<b>37112C</b>	1.1	14.5	20	2.2	A
<b>37142C</b>	1.4	16.0	22	1.9	B
<b>37222C</b>	2.2	11.5	15	4.0	A
<b>37242C</b>	2.4	12.0	16.5	3.0	B
<b>37302C</b>	3.0	9.0	13	4.8	A
<b>37392C</b>	3.9	10.0	12	4.2	B

## ABSOLUTE MAXIMUM RATINGS

Operating temperature range	-40°C to +130°C
Storage temperature range	-40°C to +150°C

## SOLDERING INFORMATION<sup>3</sup>

Peak reflow temperature	245°C
Pin finish	Pure tin dip
Moisture sensitivity level	1

## PACKAGING INFORMATION

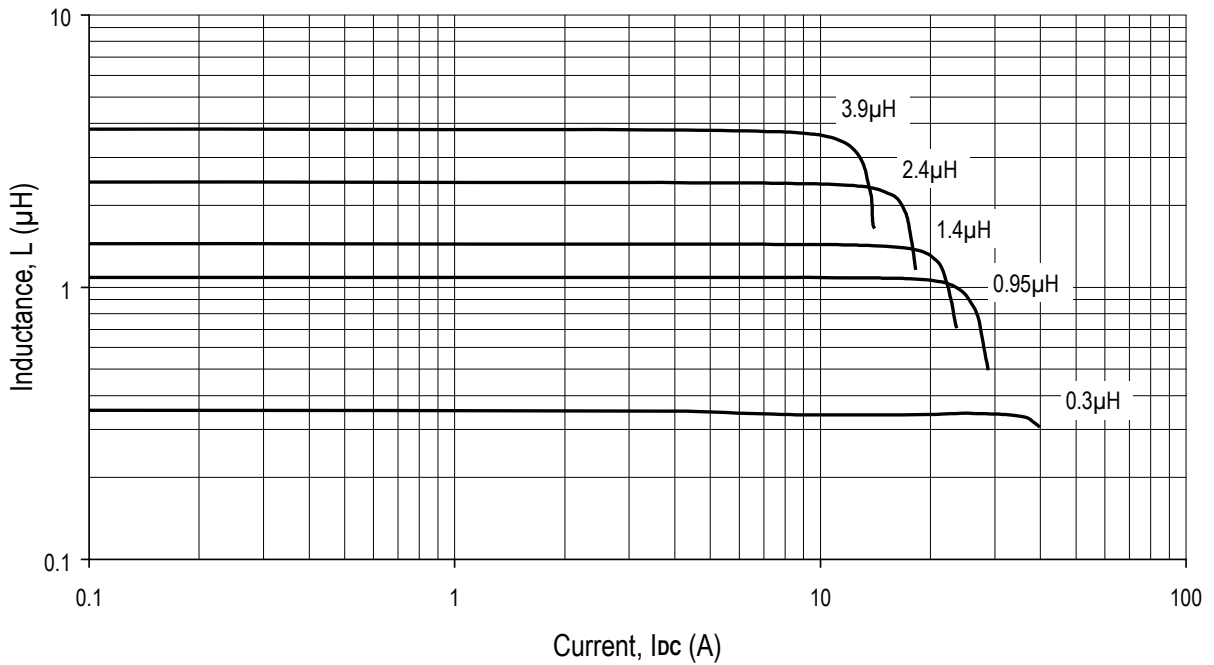
Tape & Reel	Height A	Height B
	700 per reel	550 per reel

All specifications typical at T<sub>a</sub>=25°C

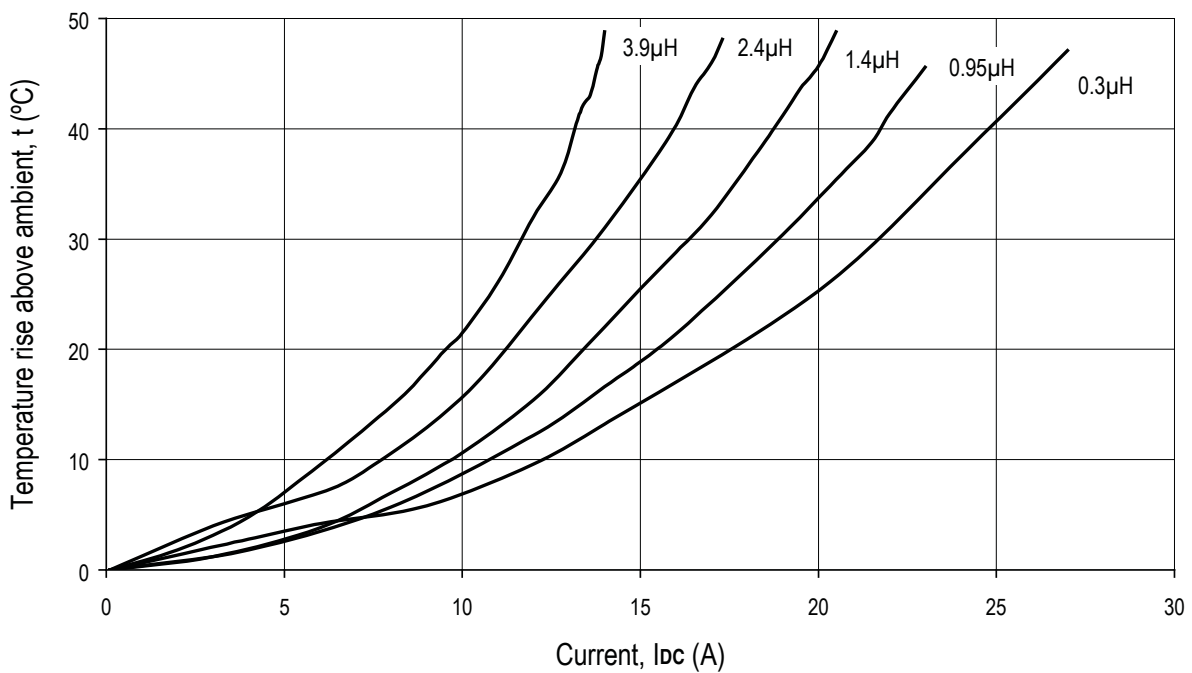
- 1 The maximum DC Current is the value at which the inductance falls to 80% of its zero current value, or when its temperature rise reaches 40°C, whichever is sooner.
- 2 Saturation current is the continuous current at 20°C ambient at which the inductance falls to 80% of its zero current value.
- 3 For further information, please visit [www.murata-ps.com/rohs](http://www.murata-ps.com/rohs)



**INDUCTANCE Vs CURRENT**

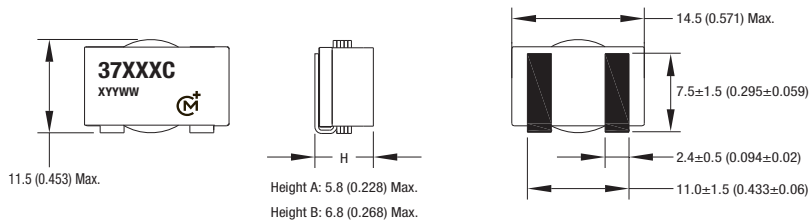


**TEMPERATURE Vs CURRENT**



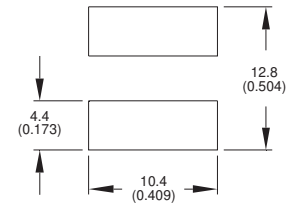
**PACKAGE SPECIFICATIONS**

**MECHANICAL DIMENSIONS**



All dimensions in mm (inches).  
Package weight: 2.6g Typ. (Height A), 3.4g Typ. (Height B)

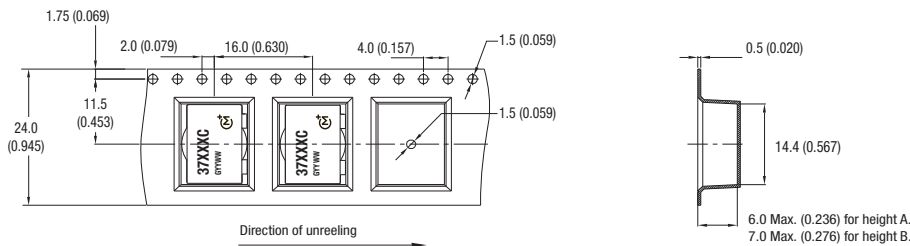
**RECOMMENDED FOOTPRINT DETAILS**



All dimensions in mm (inches).

**TAPE & REEL SPECIFICATIONS**

**TAPE OUTLINE DIMENSIONS**



All dimensions in mm (inches).