



## 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

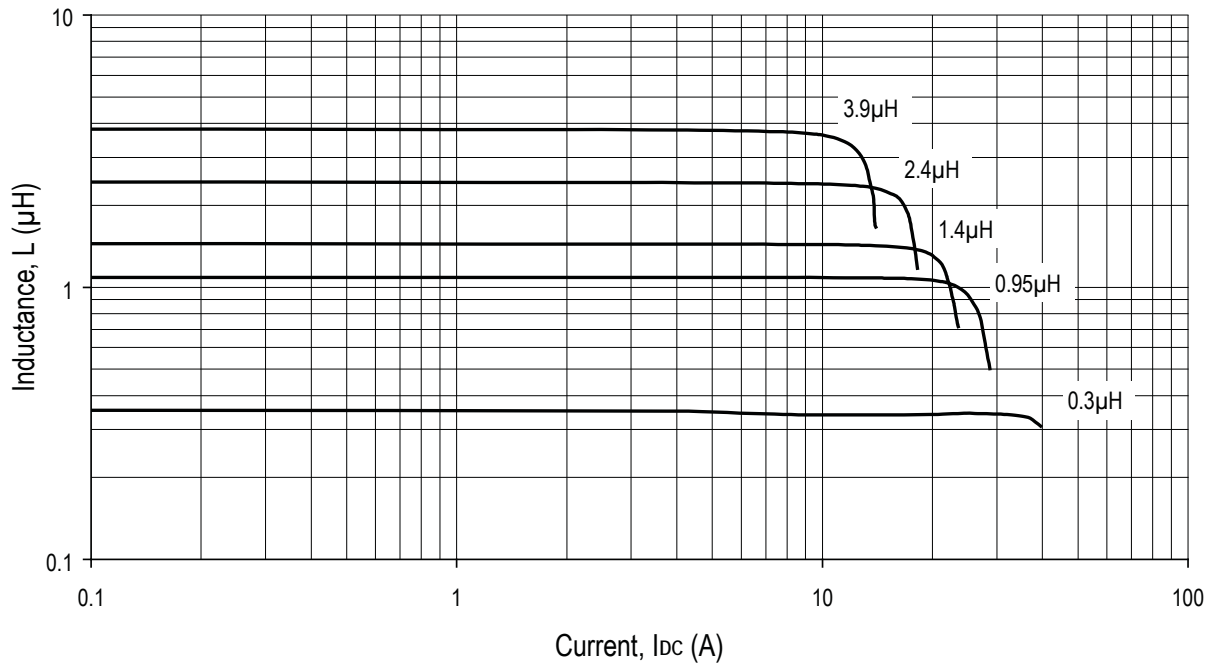
Tape & Reel	Height A	Height B
	700 per reel	550 per reel

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

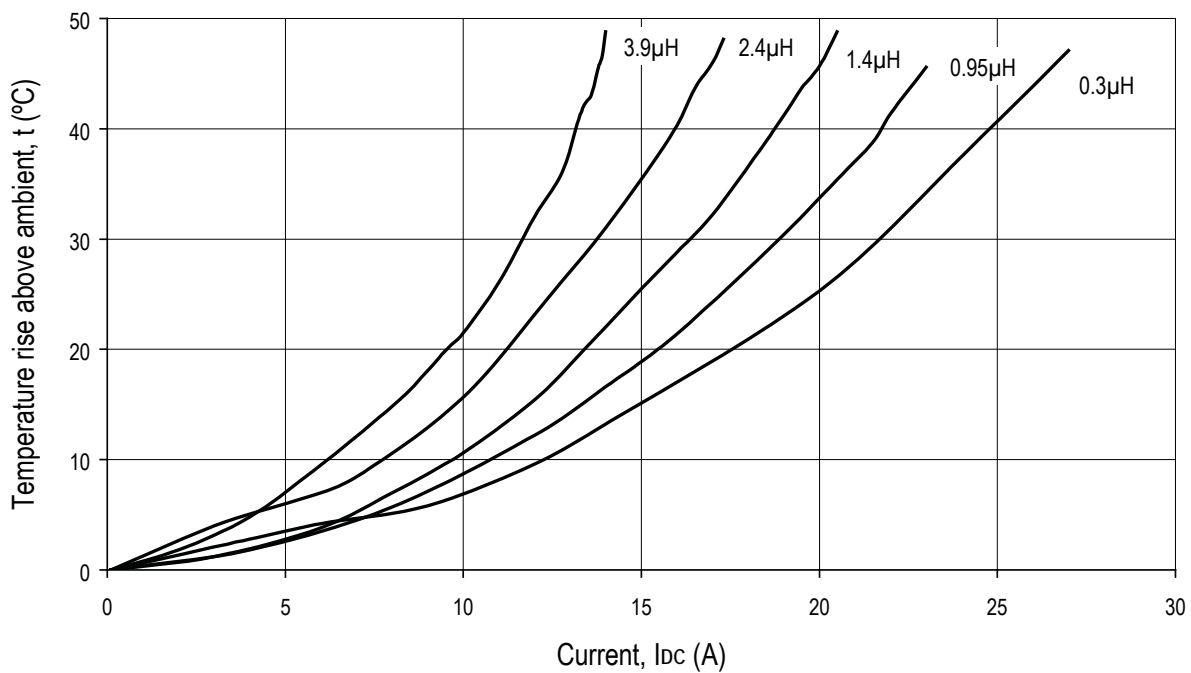
- 1 The maximum DC Current is the value at which the inductance falls to 80% of its zero current value, or when its temperature rise reaches 40°C, whichever is sooner.
- 2 Saturation current is the continuous current at 20°C ambient at which the inductance falls to 80% of its zero current value.
- 3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



**INDUCTANCE Vs CURRENT**

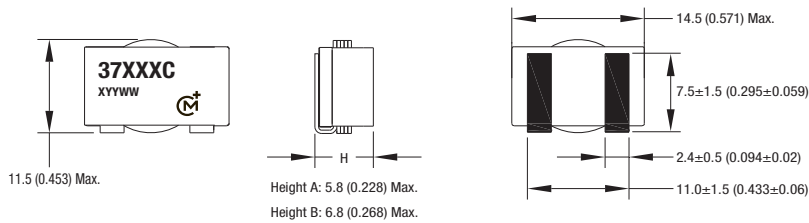


**TEMPERATURE Vs CURRENT**



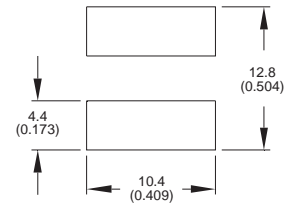
**PACKAGE SPECIFICATIONS**

**MECHANICAL DIMENSIONS**



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

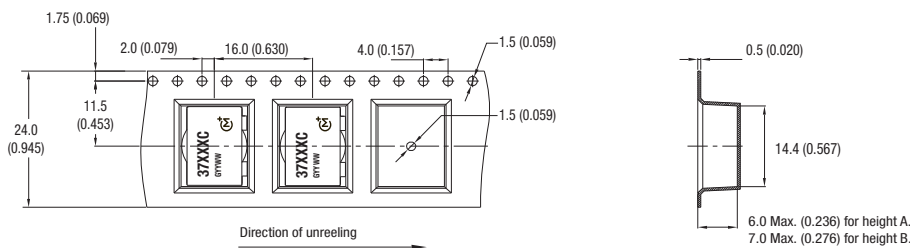
**RECOMMENDED FOOTPRINT DETAILS**



All dimensions in mm (inches).

**TAPE & REEL SPECIFICATIONS**

**TAPE OUTLINE DIMENSIONS**



All dimensions in mm (inches).