

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 _{AC})	DC Current ¹	Saturation Current ²	DC Resistance	Height	Recommended Alternative
	±10% µH	Max. A	Typ. A	Max. mΩ		
To be discontinued						
37301C	0.30 ±20%	19.5	39	0.9	A	Contact Murata
37501C	0.50 ±20%	19.5	30	1.0	A	Contact Murata
37951C	0.95 ±20%	18.0	25	1.3	B	Contact Murata
37112C	1.1	14.5	20	2.2	A	Contact Murata
37142C	1.4	16.0	22	1.9	B	Contact Murata
37222C	2.2	11.5	15	4.0	A	Contact Murata
37242C	2.4	12.0	16.5	3.0	B	Contact Murata
37302C	3.0	9.0	13	4.8	A	Contact Murata
37392C	3.9	10.0	12	4.2	B	Contact Murata

ABSOLUTE MAXIMUM RATINGS

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

SOLDERING INFORMATION³

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

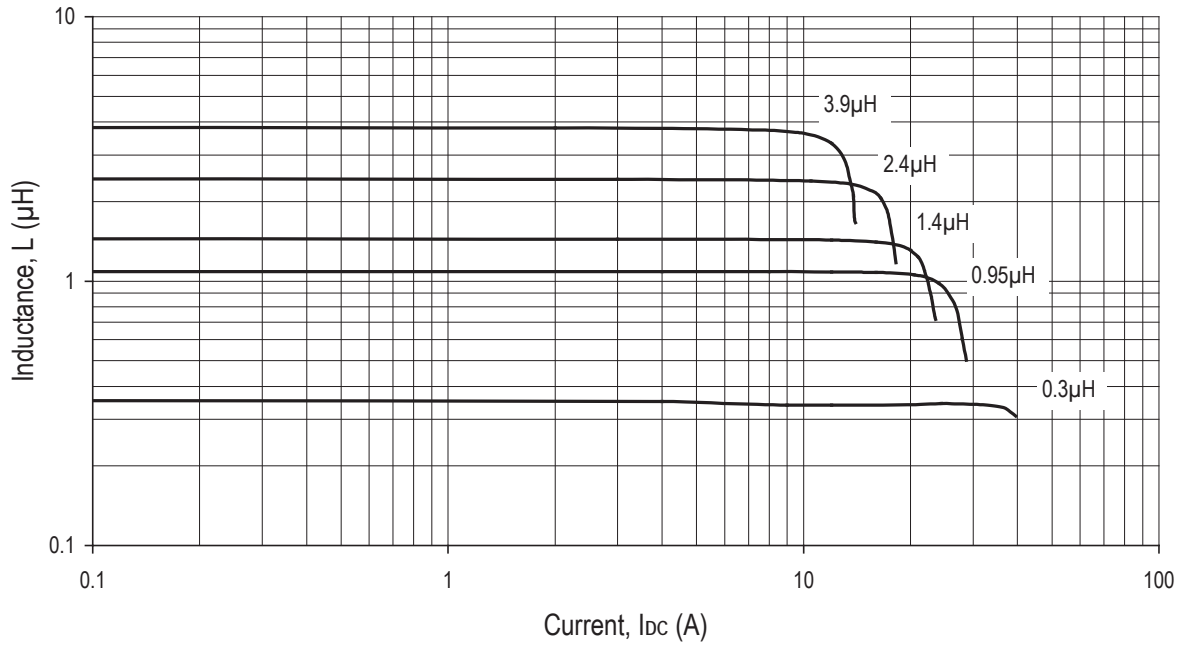
All specifications typical at T_a=25°C

- 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

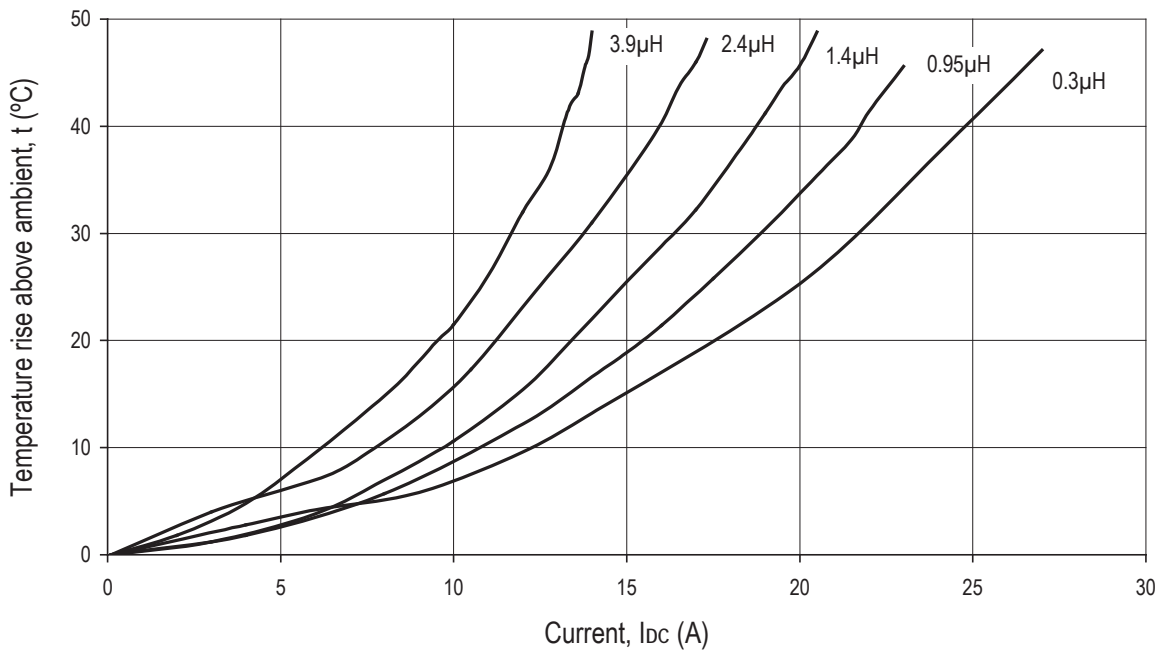


For full details go to
www.murata-ps.com/rohs

INDUCTANCE Vs CURRENT

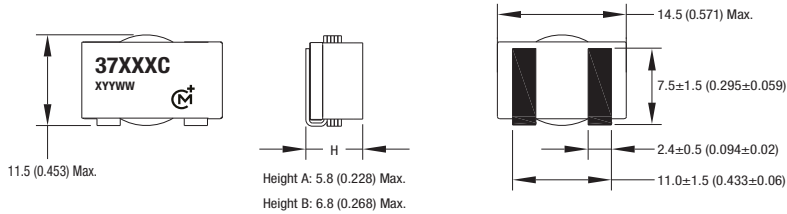


TEMPERATURE Vs CURRENT



PACKAGE SPECIFICATIONS

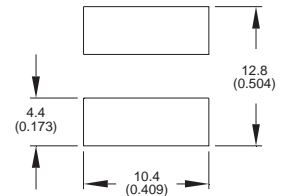
MECHANICAL DIMENSIONS



All dimensions in mm (inches).

Package weight: 2.6g Typ. (Height A), 3.4g Typ. (Height B)

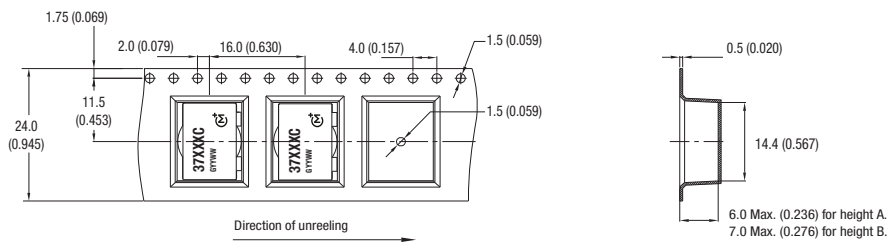
RECOMMENDED FOOTPRINT DETAILS



All dimensions in mm (inches).

TAPE & REEL SPECIFICATIONS

TAPE OUTLINE DIMENSIONS



All dimensions in mm (inches).

DISCLAIMER

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These applications include but are not limited to:

- Aircraft equipment
- Aerospace equipment
- Undersea equipment
- Power plant control equipment
- Medical equipment
- Transportation equipment (automobiles, trains, ships, etc.)
- Traffic signal equipment
- Disaster prevention / crime prevention equipment
- Data Processing equipment

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