



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 |
|---------------|---|----------------------------|------------------------------------|------------------|--------|
| | ±10% | Max. | Typ. | Max. | |
| | μH | A | A | mΩ | |
| 37301C | 0.30 ±20% | 19.5 | 39 | 0.9 | A |
| 37501C | 0.50 ±20% | 19.5 | 30 | 1.0 | A |
| 37951C | 0.95 ±20% | 18.0 | 25 | 1.3 | B |
| 37112C | 1.1 | 14.5 | 20 | 2.2 | A |
| 37142C | 1.4 | 16.0 | 22 | 1.9 | B |
| 37222C | 2.2 | 11.5 | 15 | 4.0 | A |
| 37242C | 2.4 | 12.0 | 16.5 | 3.0 | B |
| 37302C | 3.0 | 9.0 | 13 | 4.8 | A |
| 37392C | 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 INFORMATION³

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

PACKAGING INFORMATION

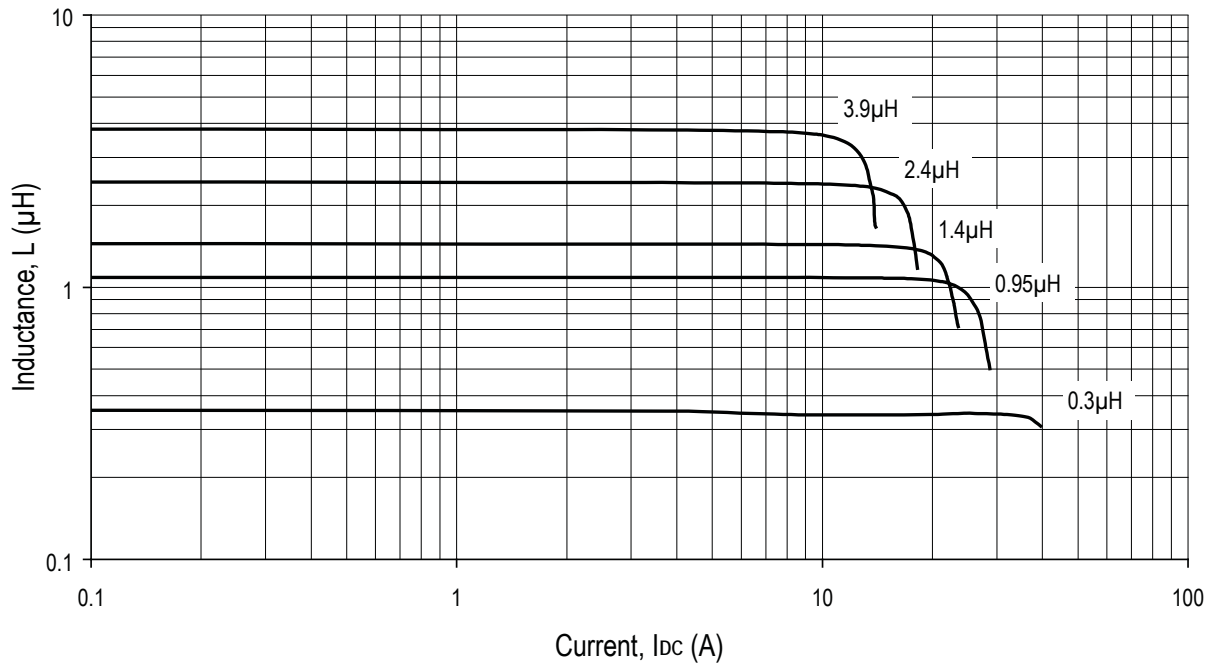
| | | |
|-------------|--------------|--------------|
| Tape & Reel | Height A | Height B |
| | 700 per reel | 550 per reel |

All specifications typical at T_a=25°C

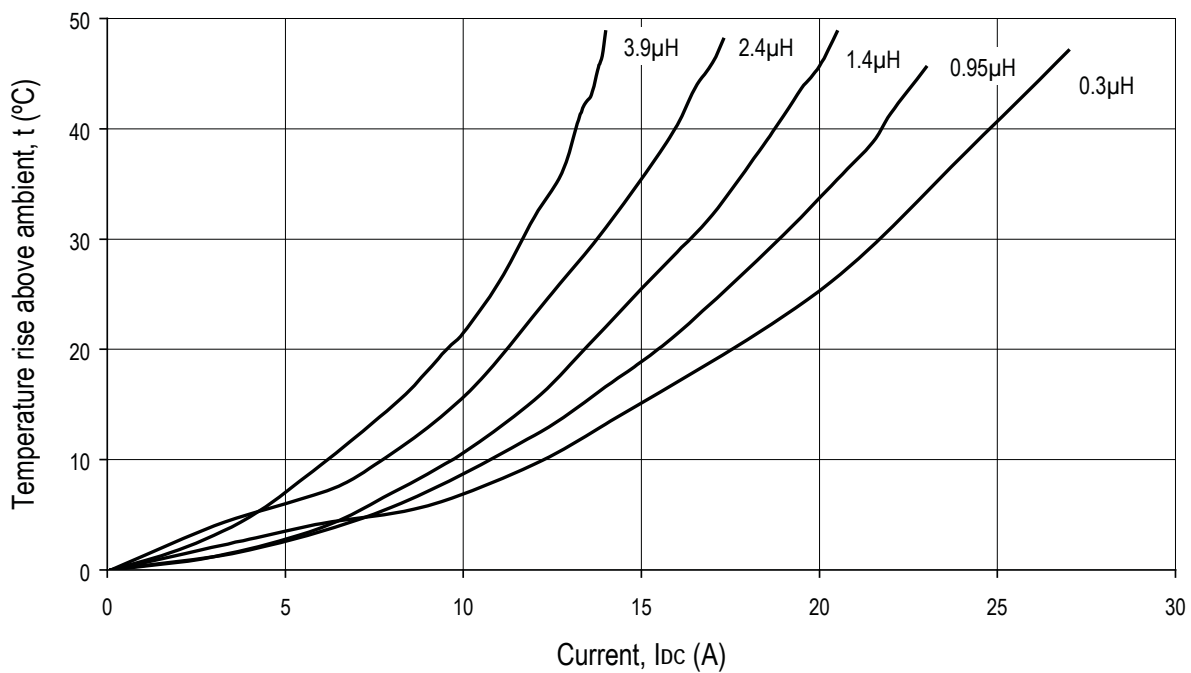
- 1 The maximum DC Current is the value at which the inductance falls to 80% of its zero current value, or when its temperature rise reaches 40°C, whichever is sooner.
- 2 Saturation current is the continuous current at 20°C ambient at which the inductance falls to 80% of its zero current value.
- 3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



INDUCTANCE Vs CURRENT

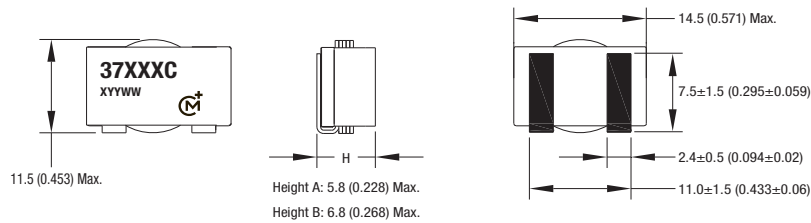


TEMPERATURE Vs CURRENT



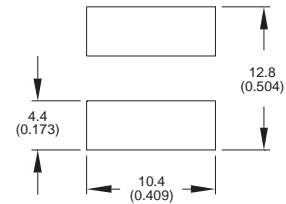
PACKAGE SPECIFICATIONS

MECHANICAL DIMENSIONS



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

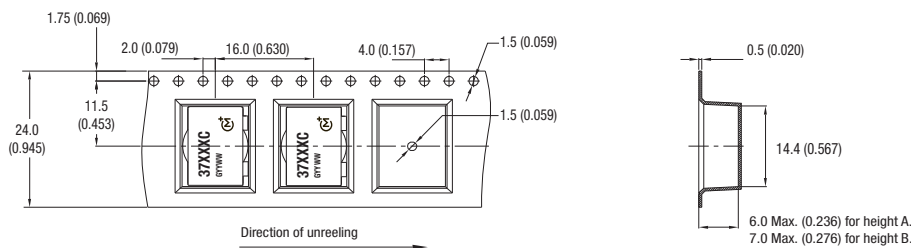
RECOMMENDED FOOTPRINT DETAILS



All dimensions in mm (inches).

TAPE & REEL SPECIFICATIONS

TAPE OUTLINE DIMENSIONS



All dimensions in mm (inches).