3600 Series

Flat Coil SM Power Inductors

FEATURES

- RoHS compliant
- Inductance range from 0.4µH to 4.7µH
- Small footprint
- Low profile
- UL 94V-0 packaging materials
- Custom inductance values available

PRODUCT OVERVIEW

The 3600 series is a range of flat-coil power inductors. They are ideal for high power designs which demand reliability in high temperature environments. Used to provide filtering or energy storage, they are suited to many power applications including portable devices, computers and telecom equipment.

SELECTION GUIDE

Order Code	Inductance, L ±25% µH	DC Current[2] Max. A	DC Resistance Max. mΩ	Recommended Alternative
		NRND		
36401C	0.40	14.5	4	Contact Murata
36601C	0.60	12.5	5	Contact Murata
36102C	1.00	9.5	7.5	Contact Murata
36182C	1.80	7.0	14	Contact Murata
36232C	2.30	6.0	20	Contact Murata
36332C	3.30	4.6	35	Contact Murata
36472C	4.70	3.6	41	Contact Murata

ABSOLUTE MAXIMUM RATINGS

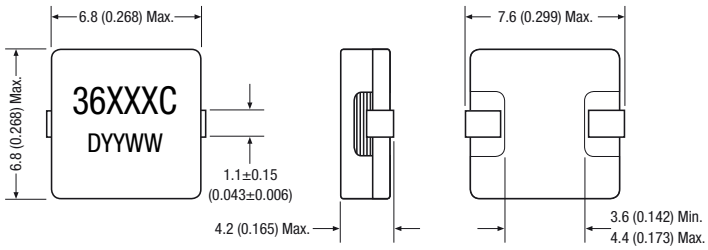
Operating temperature range	-40°C to 125°C
Storage temperature range	-40°C to 150°C

SOLDERING INFORMATION[1]

Peak reflow solder temperature	250°C
Pin finish	Tin dip
Moisure sensitivity level	1

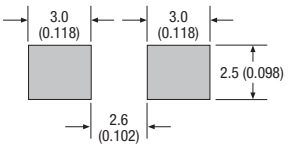
PACKAGE SPECIFICATIONS

Mechanical Dimensions



Package weight: 0.8g Typ.

Recommended Footprint Details



Unless otherwise stated, all dimensions in mm (inches) ± 0.25 (0.010).

RoHS COMPLIANT

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

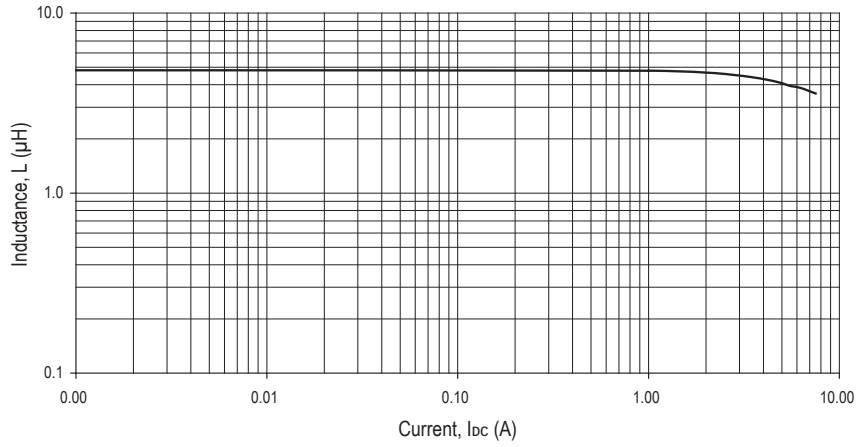
Specifications typical at T_A = 25°C

1 For further information, please visit www.murata-ps.com/rohs

2 The maximum DC current is the value at which the inductance falls to 75% of its nominal value or when its temperature rise reaches 40°C, whichever is sooner.

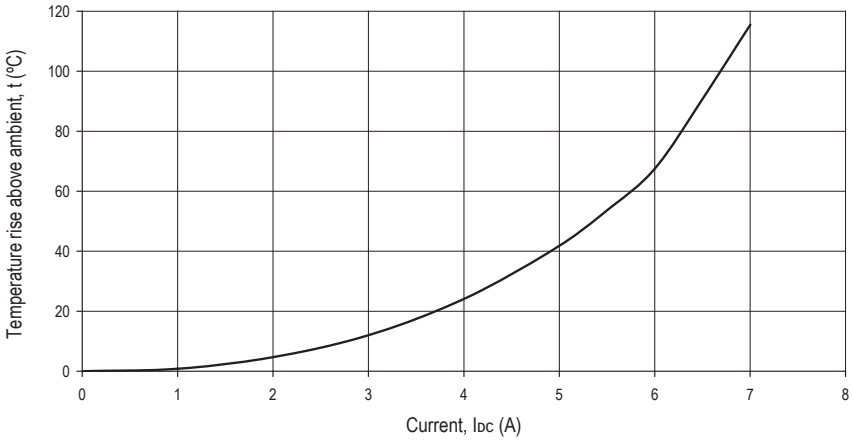
INDUCTANCE Vs CURRENT

36472C
Typical performance characteristics



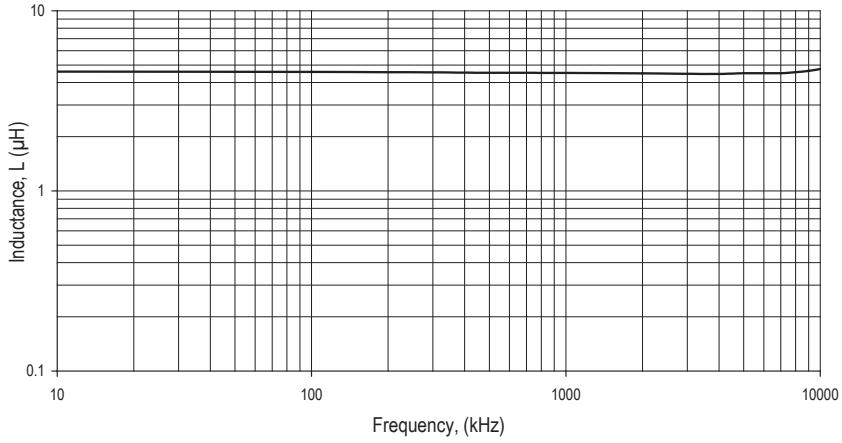
TEMPERATURE Vs CURRENT

36472C
Typical performance characteristics



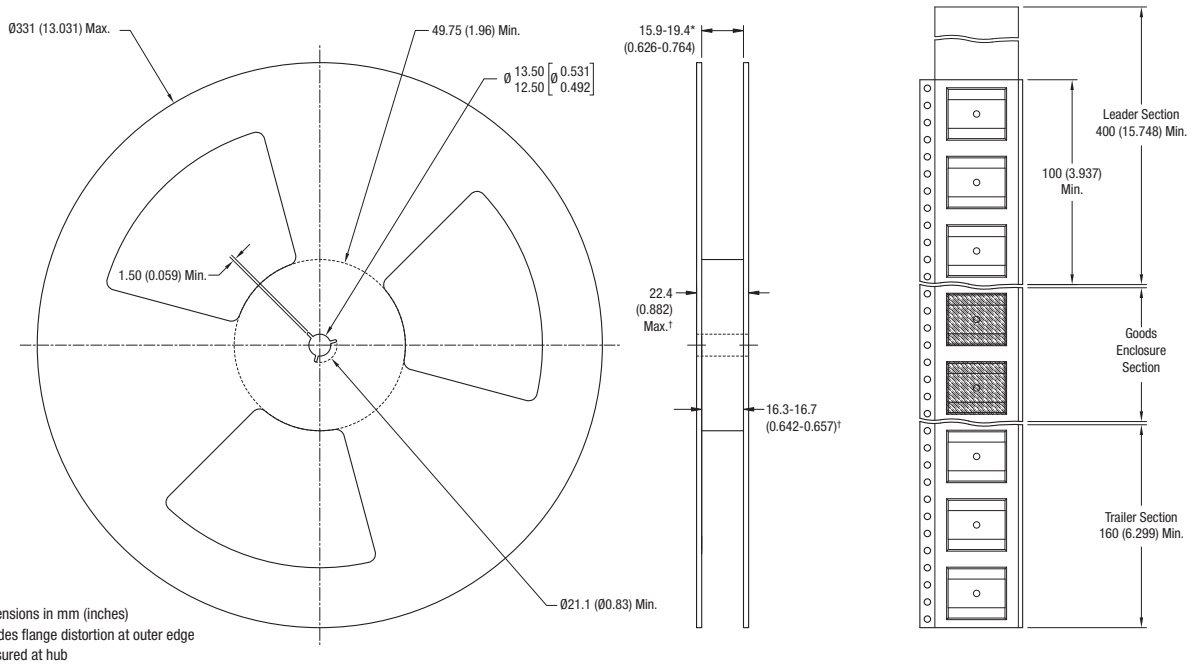
INDUCTANCE Vs FREQUENCY

36472C
Typical performance characteristics



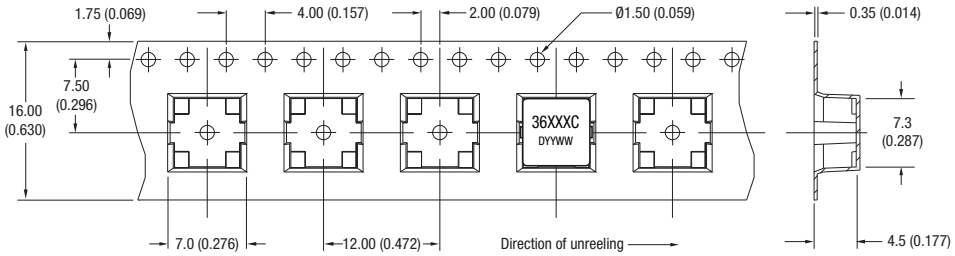
PACKAGE SPECIFICATIONS

Mechanical Dimensions



All dimensions in mm (inches)
* Includes flange distortion at outer edge
† Measured at hub

Tape Outline Dimensions



Reel quantity: 1000
Unless otherwise stated, all dimensions in mm (inches).

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Unless otherwise stated in the datasheet, all products are designed for standard commercial and industrial applications and NOT for safety-critical and/or life-critical applications.

Particularly for safety-critical and/or life-critical applications, i.e. applications that may directly endanger or cause the loss of life, inflict bodily harm and/or loss or severe damage to equipment/property, and severely harm the environment, a prior explicit written approval from Murata is strictly required. Any use of Murata standard products for any safety-critical, life-critical or any related applications without any prior explicit written approval from Murata shall be deemed unauthorised use.

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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