Murata Power Solutions

3400 Series

Shielded Surface Mount Inductors

FEATURES

- RoHS compliant
- Inductance range from 1.2µH to 1mH
- Small footprint
- Ultra-low profile
- UL 94V-0 packaging materials
- Tape & reel
- J-STD-020C reflow
- Custom inductance values available

PRODUCT OVERVIEW

The 3400 series is a range of bobbin-wound, shielded inductors. They are suitable for power-line filtering found in consumer electronics such as desktop computers, handheld devices and GPS systems, as well as in a vast range of industrial and telecom applications including network hubs, bridges/routers, and high frequency wireless communication devices.

These surface mount inductors are extremely compact and have an integral shield, making them useful in EMI sensitive applications.

For lower current ratings see also our even lower profile 3400L series.

SELECTION GUIDE

Order Code	Inductance, L ±20% µH	DC Current[2] Max. A	DC Resistance Max. Ω	Recommended Alternative
		To be discontinued		
34122C	1.2 ± 30%	2.50	0.030	Contact Murata
34152C	1.5 ± 30%	2.10	0.040	Contact Murata
34222C	2.2 ± 30%	1.70	0.050	Contact Murata
34332C	3.3 ± 30%	1.50	0.080	Contact Murata
34472C	4.7 ± 30%	1.30	0.100	Contact Murata
34682C	6.8 ± 30%	1.00	0.150	Contact Murata
34103C	10	0.80	0.200	Contact Murata
34153C	15	0.68	0.280	Contact Murata
34223C	22	0.53	0.360	Contact Murata
34333C	33	0.48	0.560	Contact Murata
34473C	47	0.41	0.850	Contact Murata
34683C	68	0.35	1.050	Contact Murata
34104C	100	0.28	1.700	Contact Murata
34154C	150	0.23	2.400	Contact Murata
34224C	220	0.18	3.050	Contact Murata
34334C	330	0.15	4.550	Contact Murata
34474C	470	0.13	7.650	Contact Murata
34684C	680	0.11	11.150	Contact Murata
34105C	1000	0.09	15.000	Contact Murata

ABSOLUTE MAXIMUM RATINGS

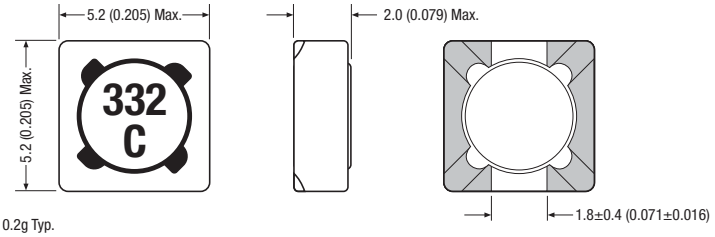
Operating temperature range	-40°C to 125°C
Storage temperature range	-40°C to 150°C

SOLDERING INFORMATION[1]

Peak reflow solder temperature	260°C
Pin finish	SAC 305
Moisture sensitivity level[3]	1

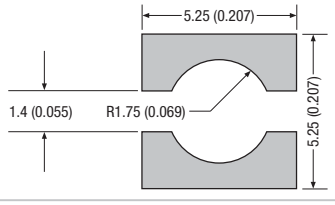
PACKAGE SPECIFICATIONS

Mechanical Dimensions



Package weight: 0.2g Typ.

Recommended Footprint Details



All dimensions in mm (inches)

Specifications typical at T_A = 25°C

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

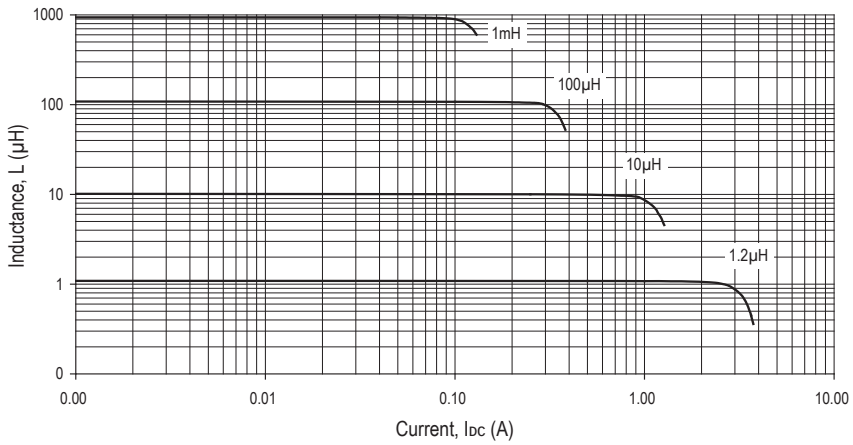
2 The maximum DC current is the value at which the inductance falls to 75% of its nominal value or when its temperature rise reaches 40°C, whichever is sooner.

3 When tested to moisture sensitivity level 1, as described per IPC/JEDEC J-STD-020D, products passed electrical testing, package coplanarity and visual inspection.

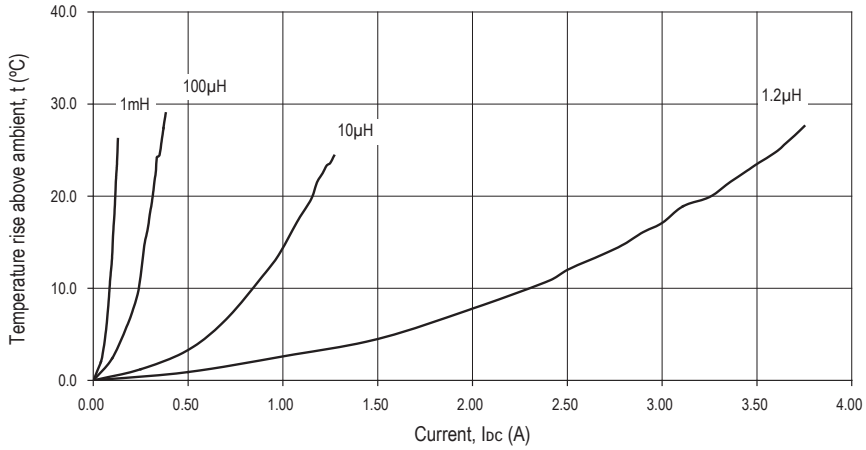
RoHS COMPLIANT

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

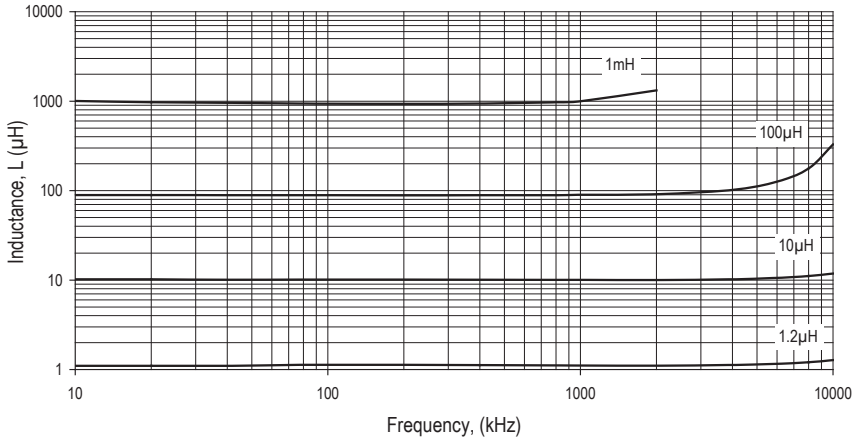
INDUCTANCE Vs CURRENT



TEMPERATURE Vs CURRENT

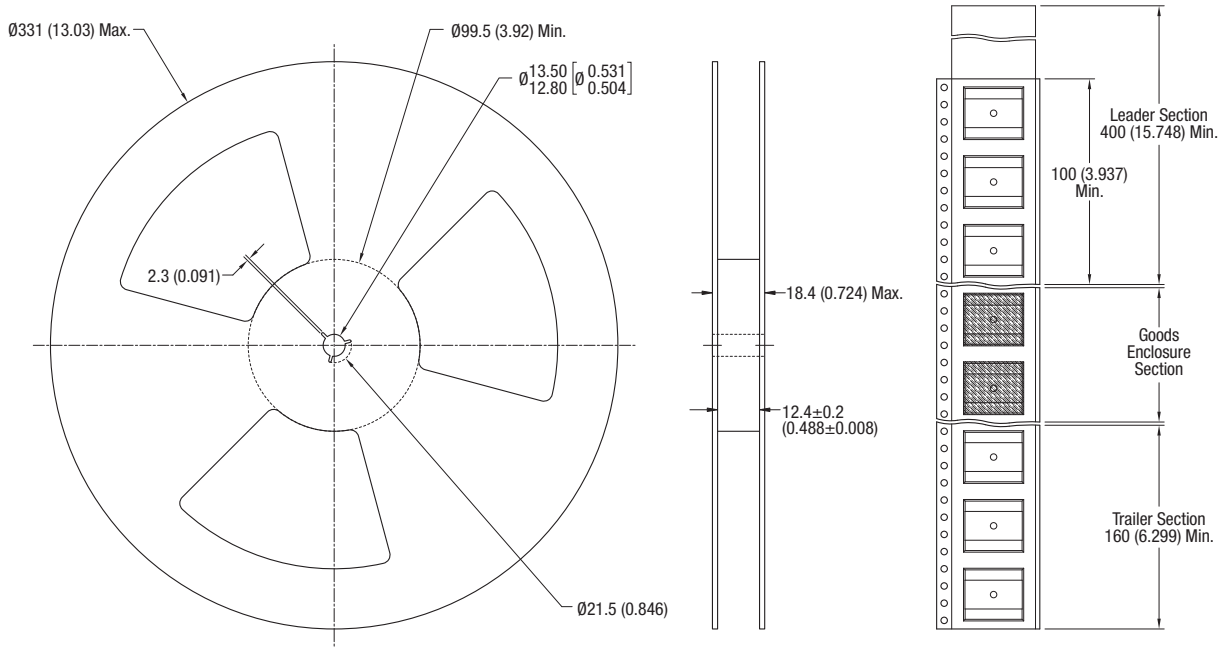


INDUCTANCE Vs FREQUENCY



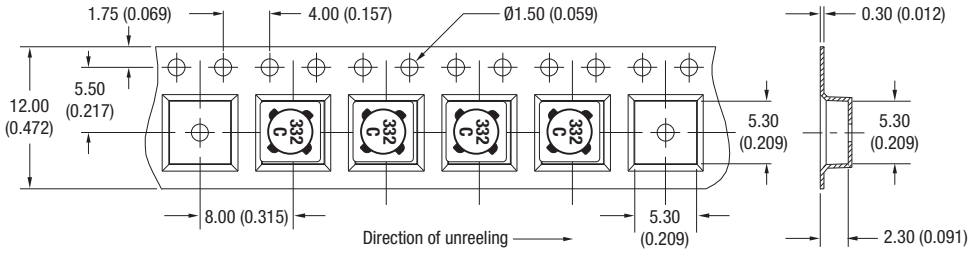
PACKAGE SPECIFICATIONS

Mechanical Dimensions



All dimension in mm (inches)

Tape Outline Dimensions



Reel quantity: 3000

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

DISCLAIMER

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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Buyer represents and agrees that it has all the necessary expertise to create and implement safeguards that anticipate dangerous consequences of failures, monitor failures and their consequences, lessen the likelihood of failures that might cause harm, and take appropriate remedial actions. Buyer will fully indemnify and hold Murata, its affiliated companies, and its representatives harmless against any damages arising out of unauthorised use of any Murata products in any safety-critical and/or life-critical applications.

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