

## FEATURES

- RoHS compliant
- Inductance range from 1.2 $\mu$ H 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.

# 3400 Series

Shielded Surface Mount Inductors

## SELECTION GUIDE

Order Code	Inductance, L	DC Current <sup>2</sup>	DC Resistance	Recommended Alternative
	$\pm 20\%$	Max.	Max.	
	$\mu$ H	A	$\Omega$	
NRND				
34122C	1.2 $\pm$ 30%	2.50	0.030	Contact Murata
34152C	1.5 $\pm$ 30%	2.10	0.040	Contact Murata
34222C	2.2 $\pm$ 30%	1.70	0.050	Contact Murata
34332C	3.3 $\pm$ 30%	1.50	0.080	Contact Murata
34472C	4.7 $\pm$ 30%	1.30	0.100	Contact Murata
34682C	6.8 $\pm$ 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

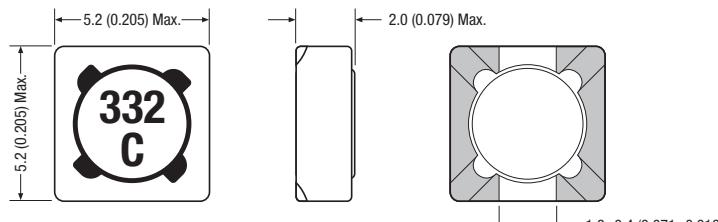
Operating temperature range	-40°C to 125°C
Storage temperature range	-40°C to 150°C

## SOLDERING INFORMATION<sup>1</sup>

Peak reflow solder temperature	260°C
Pin finish	SAC 305
Moisture sensitivity level <sup>3</sup>	1

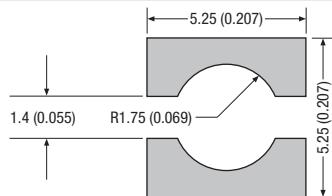
## PACKAGE SPECIFICATIONS

### Mechanical Dimensions



Package weight: 0.2g Typ.

### Recommended Footprint Details



All dimensions in mm (inches)

Specifications typical at  $T_A = 25^\circ\text{C}$

1 For further information, please visit [www.murata-ps.com/rohs](http://www.murata-ps.com/rohs)

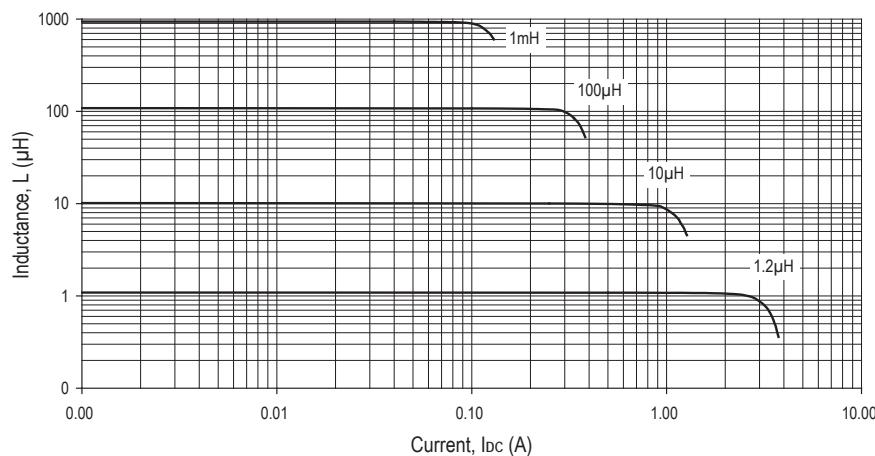
2 The maximum DC current is the value at which the inductance falls to 75% of its nominal value or when its temperature rise reaches 40°C, whichever is sooner.

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.

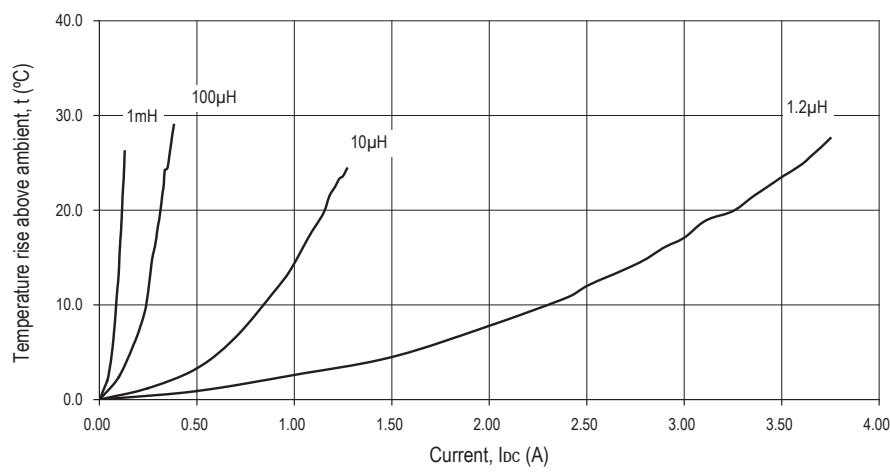


For full details go to  
[www.murata-ps.com/rohs](http://www.murata-ps.com/rohs)

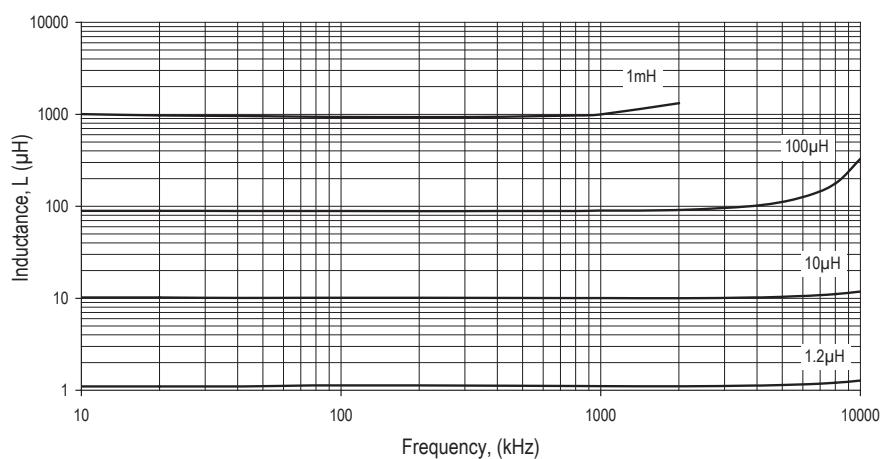
## INDUCTANCE Vs CURRENT



## TEMPERATURE Vs CURRENT

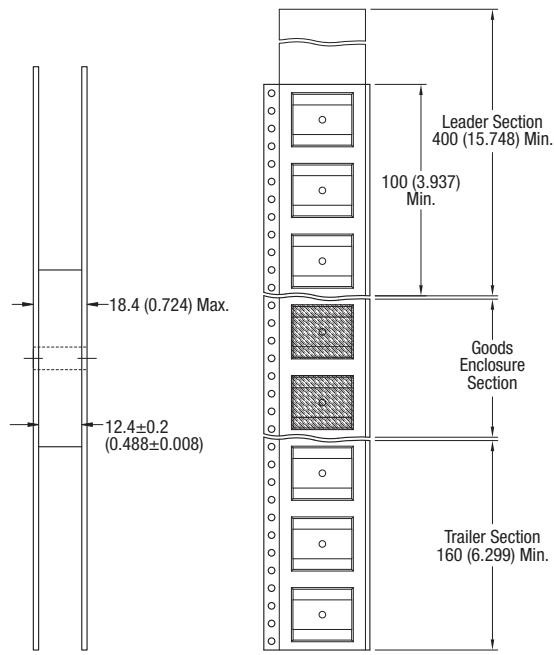
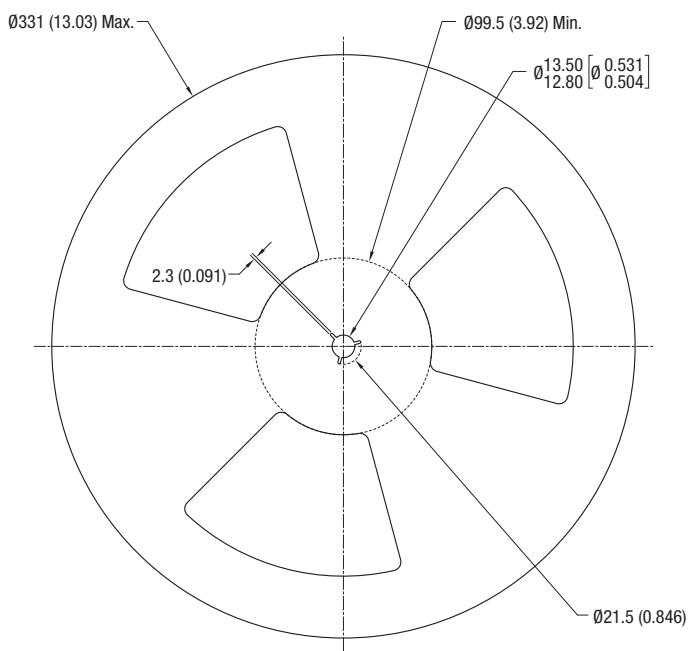


## INDUCTANCE Vs FREQUENCY



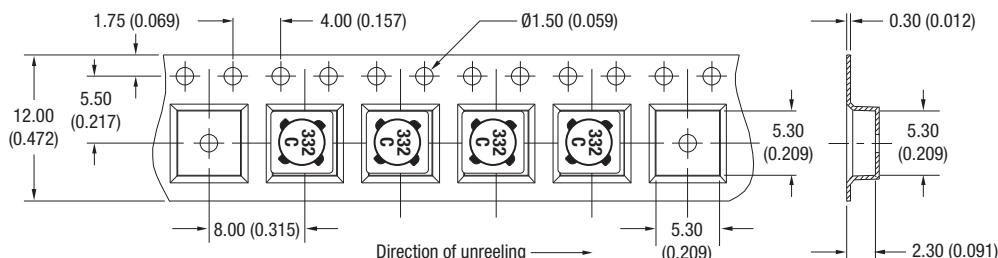
**PACKAGE SPECIFICATIONS**

**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.

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- 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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