

## FEATURES

- RoHS compliant
- Toroidal construction
- Up to 7.6A I<sub>DC</sub>
- Inductance range from 10µH to 1.0mH
- Low EMI
- UL 94V-0 packaging materials
- Low DC resistance

## PRODUCT OVERVIEW

The 3300 series is a range of through-hole power inductors. Due to the toroidal construction, they exhibit a very low EMI as stray flux is kept to a minimum. Typical applications include switching regulators, and power line filtering.

## SELECTION GUIDE

Order Code	Inductance, L	DC Current <sup>2</sup>	DC Resistance	Q @ f MHz		SRF	Package Weight
	±15%	Max.	Max.	Nom.		Typ.	Typ.
	µH	A	mΩ	Q	f	MHz	g
	<b>To be discontinued</b>						
<b>33100C</b>	10	7.60	20	3.4	1.0	68	20.8
<b>33150C</b>	15	6.20	27	3.3	1.0	49	21.3
<b>33220C</b>	22	5.10	33	3.4	1.0	37	21.5
<b>33330C</b>	33	4.20	40	3.5	1.0	24	22.0
<b>33470C</b>	47	3.50	48	3.4	1.0	17	22.5
<b>33680C</b>	68	2.90	57	3.5	1.0	16	22.9
<b>33101C</b>	100	2.40	70	3.9	0.8	9.7	23.7
<b>33151C</b>	150	2.00	84	3.8	0.8	7.2	24.9
<b>33221C</b>	220	1.60	102	3.2	0.8	2.0	26.1
<b>33331C</b>	330	1.30	126	3.4	0.8	1.9	27.8
<b>33471C</b>	470	1.10	152	2.6	0.8	1.4	29.5
<b>33681C</b>	680	0.92	183	0.64	0.8	0.9	31.5
<b>33102C</b>	1000	0.76	221	0.85	0.8	0.7	34.0

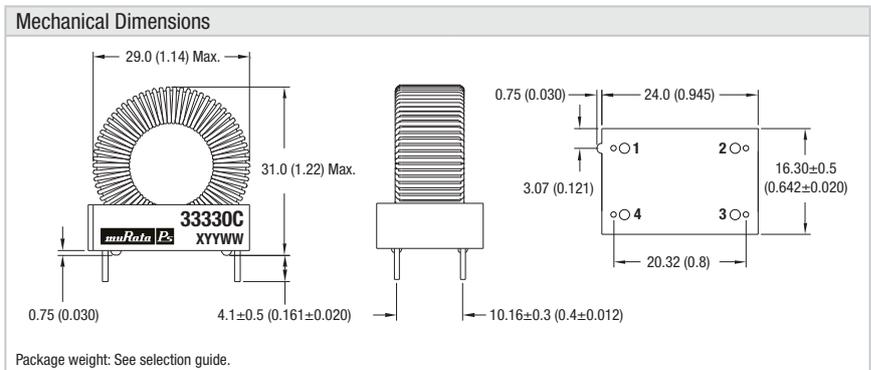
## ABSOLUTE MAXIMUM RATINGS

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

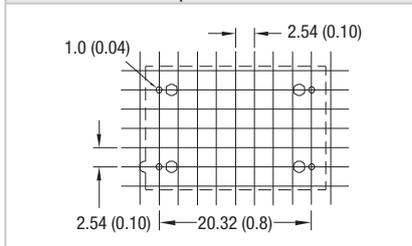
## SOLDERING INFORMATION<sup>1</sup>

Peak wave solder temperature	260°C
Pin finish	Tin

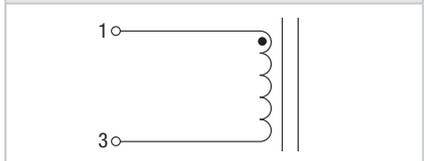
## PACKAGE SPECIFICATIONS



### Recommended Footprint Details



### Pin Connections



### Packaging

Supplied in trays (40 pieces per tray)

Specifications typical at T<sub>A</sub> = 25°C

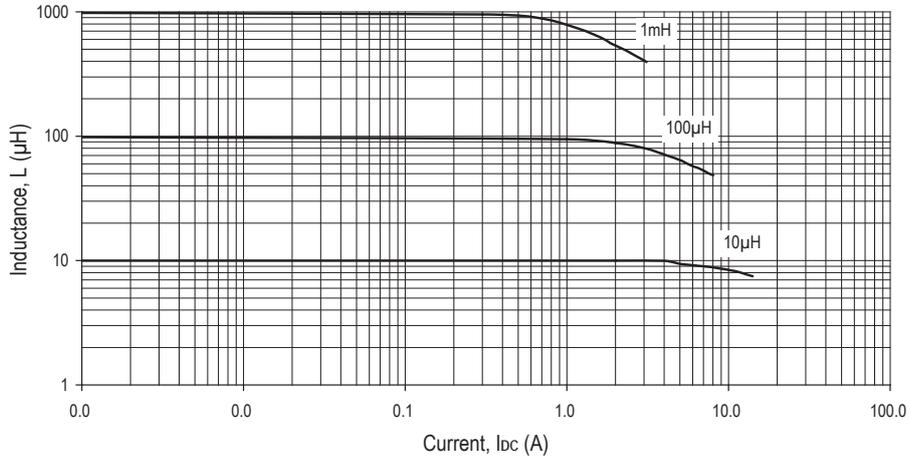
1 For further information, please visit [www.murata-ps.com/rohs](http://www.murata-ps.com/rohs)

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.

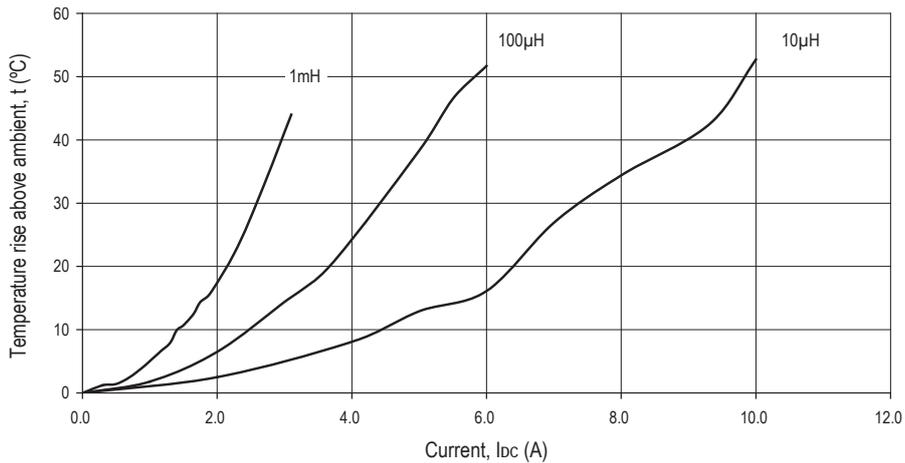


For full details go to [www.murata-ps.com/rohs](http://www.murata-ps.com/rohs)

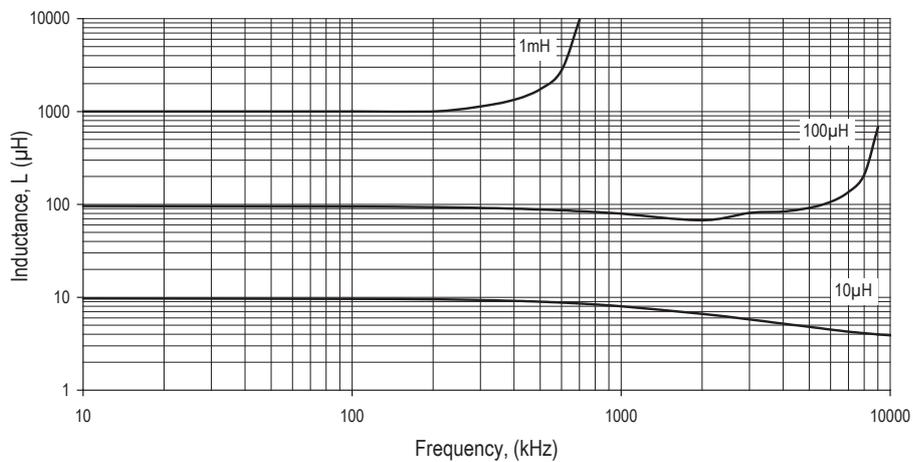
**INDUCTANCE Vs CURRENT**



**TEMPERATURE Vs CURRENT**



**INDUCTANCE Vs FREQUENCY**



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