



### FEATURES

- RoHS compliant
- Toroidal construction
- Up to 7.6A DC
- Inductance range from 10 $\mu$ H 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.
	$\mu$ H	A	m $\Omega$	Q	f	MHz	g
33100C	10	7.60	20	3.4	1.0	68	20.8
33150C	15	6.20	27	3.3	1.0	49	21.3
33220C	22	5.10	33	3.4	1.0	37	21.5
33330C	33	4.20	40	3.5	1.0	24	22.0
33470C	47	3.50	48	3.4	1.0	17	22.5
33680C	68	2.90	57	3.5	1.0	16	22.9
33101C	100	2.40	70	3.9	0.8	9.7	23.7
33151C	150	2.00	84	3.8	0.8	7.2	24.9
33221C	220	1.60	102	3.2	0.8	2.0	26.1
33331C	330	1.30	126	3.4	0.8	1.9	27.8
33471C	470	1.10	152	2.6	0.8	1.4	29.5
33681C	680	0.92	183	0.64	0.8	0.9	31.5
33102C	1000	0.76	221	0.85	0.8	0.7	34.0

### ABSOLUTE MAXIMUM RATINGS

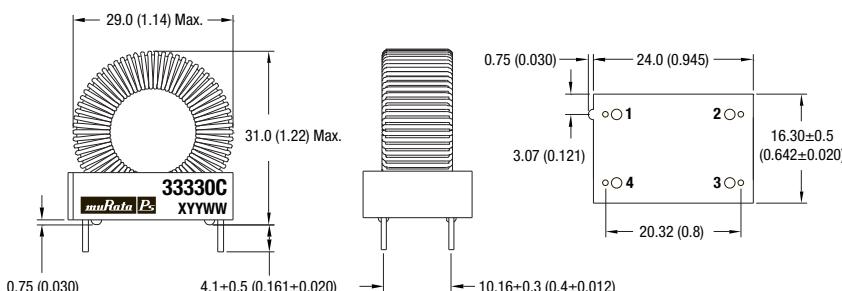
Operating temperature range	-40°C to 125°C
Storage temperature range	-40°C to 125°C

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

Peak wave solder temperature	260°C
Pin finish	Tin

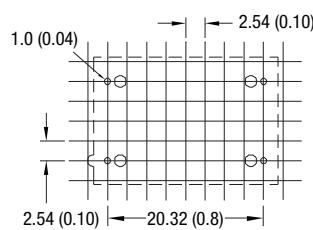
### PACKAGE SPECIFICATIONS

#### Mechanical Dimensions

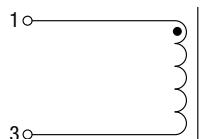


Package weight: See selection guide.

#### Recommended Footprint Details



#### Pin Connections



#### Packaging

Supplied in trays (40 pieces per tray)

Unless otherwise stated, all dimensions in mm (inches)  $\pm 0.25$  (0.010).

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

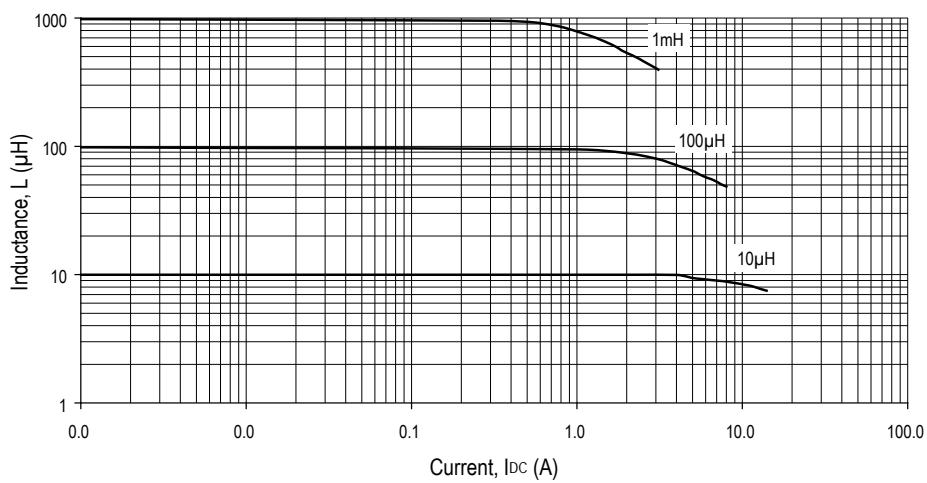
1 For further information, please visit [www.murata-ps.com/rohs](http://www.murata-ps.com/rohs)

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  $40^\circ\text{C}$ , whichever is sooner.

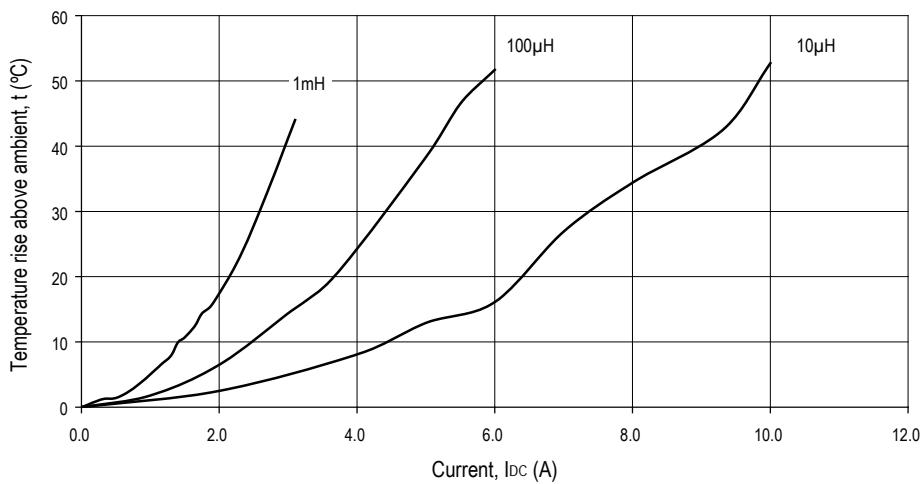


For full details go to  
[www.murata-ps.com/rohs](http://www.murata-ps.com/rohs)

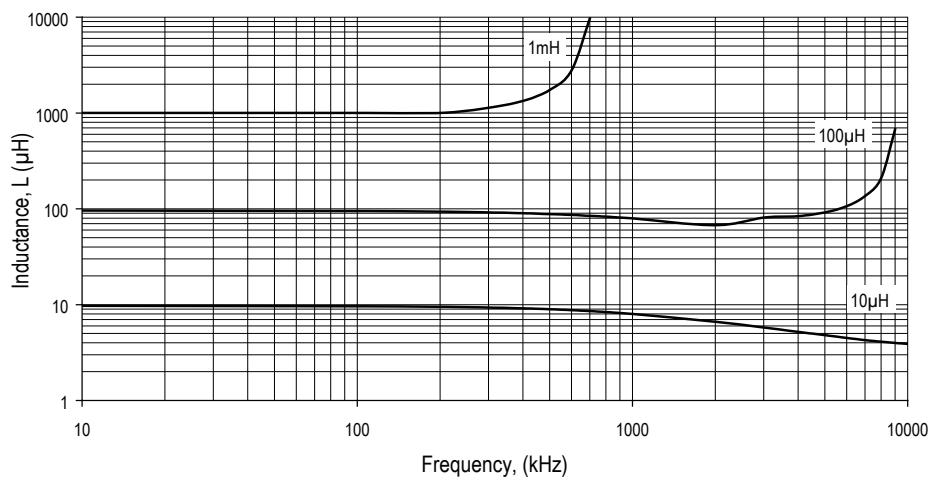
**INDUCTANCE Vs CURRENT**



**TEMPERATURE Vs CURRENT**



**INDUCTANCE Vs FREQUENCY**



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