Murata Power Solutions

2900L Series

Shielded Surface Mount Inductors



FEATURES

- RoHS compliant
- Low profile
- Surface mount
- Inductance range from 1.0µH to 1.0mH
- Tape & reel
- UL 94V-0 materials
- J-STD-020-C reflow

PRODUCT OVERVIEW

The 2900L series is a lower profile version of our 2900 series 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.

SELECTION GUIDE

Order Code	Inductance (10kHz, 0.1VAC)		Idc	Rdc
	Nom.	Min. – Max.	Max.	Max.
	µH	µH	A	mΩ
29L102C	1.0	0.70 – 1.30	4.6	13
29L152C	1.5	1.02 – 1.88	4.2	15
29L222C	2.2	1.76 – 3.26	3.0	20
29L332C	3.3	2.26 – 4.20	2.6	25
29L472C	4.7	3.31 – 6.15	2.2	31
29L682C	6.8	4.75 – 8.83	1.8	48
29L103C	10	8.4 – 12.6	1.55	64
29L153C	15	11.8 – 17.7	1.23	84
29L223C	22	17.1 – 25.7	1.05	114
29L333C	33	25.7 – 38.6	820mA	174
29L473C	47	36.7 – 55.0	800mA	223
29L683C	68	54.7 – 82.1	530mA	307
29L104C	100	79.0 – 119	480mA	456
29L154C	150	121 – 181	430mA	738
29L224C	220	178 – 266	360mA	1060
29L334C	330	267 – 403	300mA	1670
29L474C	470	380 – 570	220mA	2410
29L684C	680	560 – 840	200mA	3610
29L105C	1000	816 – 1224	140mA	6480

ABSOLUTE MAXIMUM RATINGS

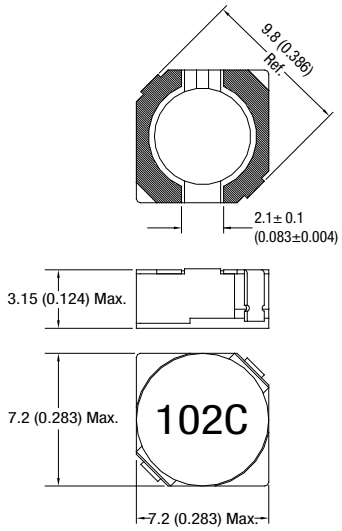
Operating free air temperature range	-40°C to 85°C
Storage temperature range	-40°C to 125°C

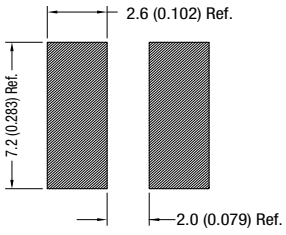
SOLDERING INFORMATION[1]

Peak reflow solder temperature	250˚C
Pin finish	Bright tin

PACKAGE SPECIFICATIONS

Mechanical Dimensions





Recommended Footprint Details*

*Distance between the outside ends of the terminations is 6.6±1.5 (0.26±0.06)
Unless otherwise stated, all dimensions in mm (inches) ± 0.25 (0.010).
Package weight: 0.5g Typ.

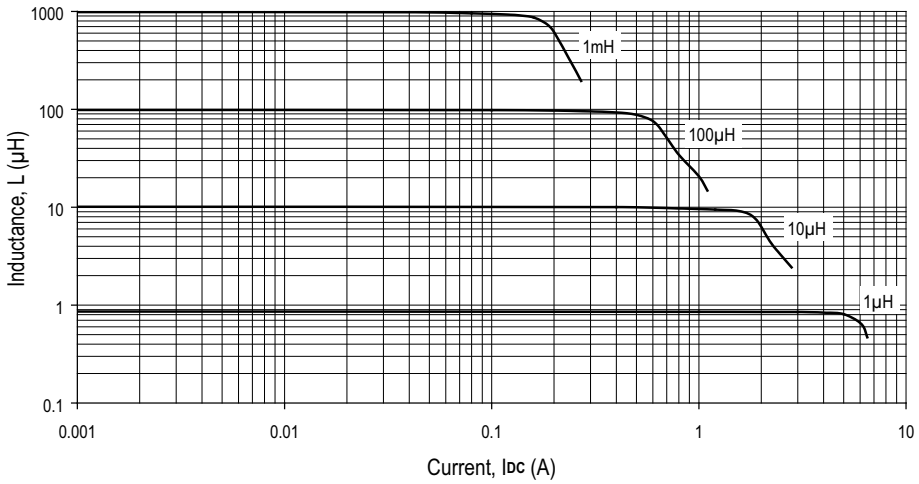
RoHS COMPLIANT 2002/95/EC

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

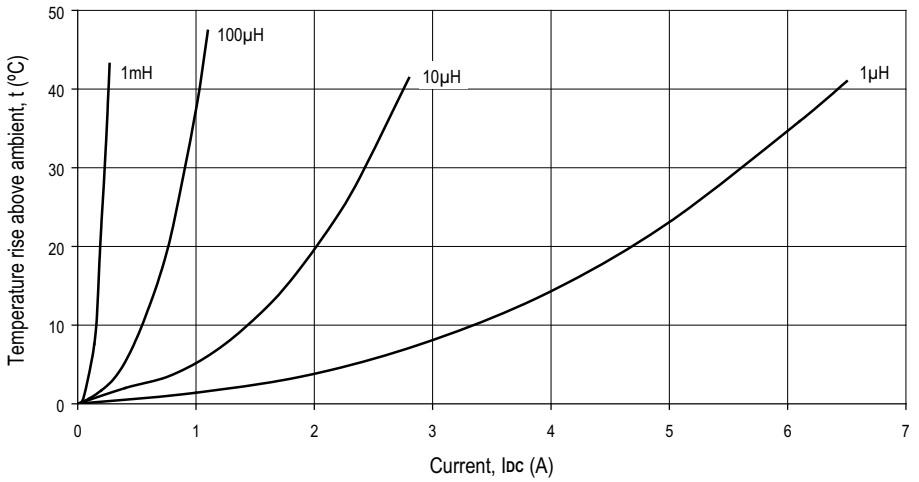
1 For further information, please visit www.murata-ps.com/rohs

All specifications typical at T_A=25°C

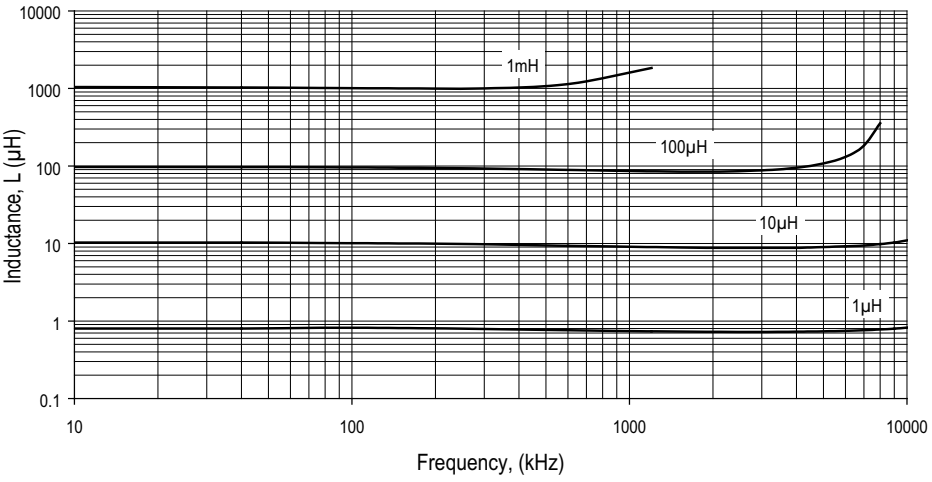
INDUCTANCE Vs CURRENT



TEMPERATURE Vs CURRENT

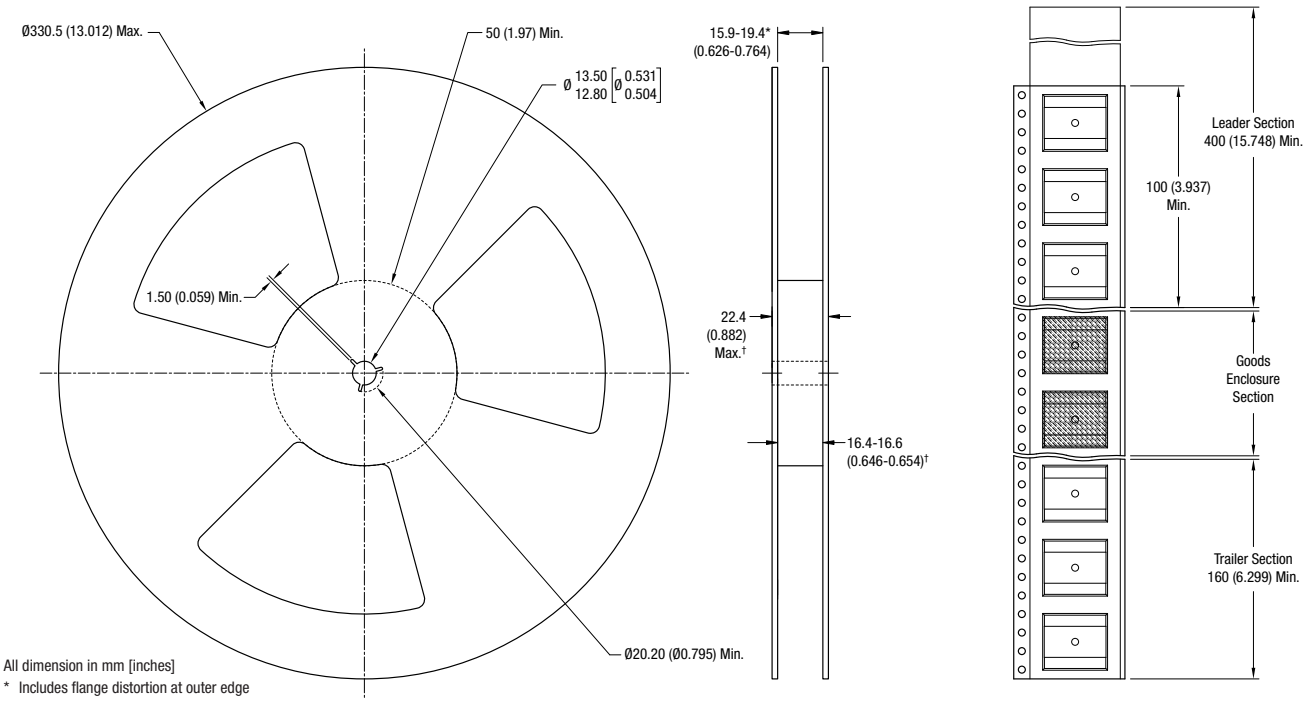


INDUCTANCE Vs FREQUENCY



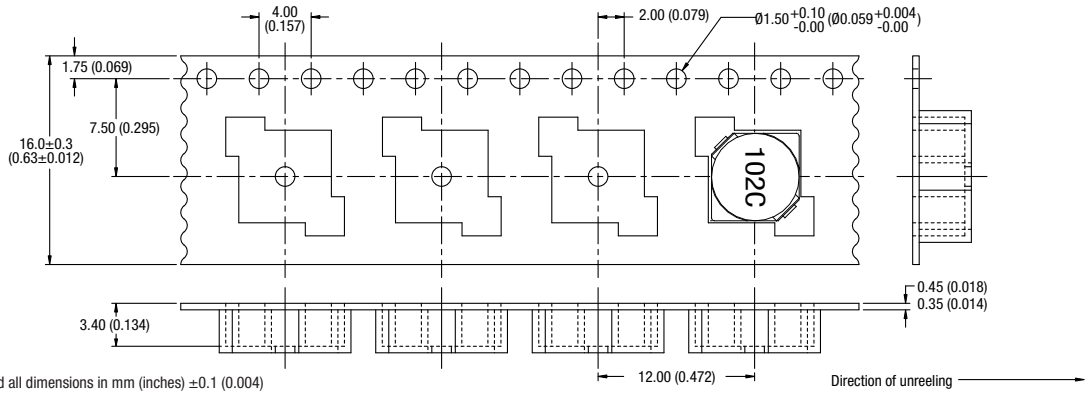
PACKAGE SPECIFICATIONS

Reel Dimensions



All dimension 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) ±0.1 (0.004)

Murata Power Solutions

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