

**FEATURES**

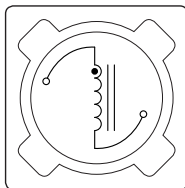
- RoHS compliant
- 0.28µH to 1.0mH
- Up to 8A I<sub>DC</sub>
- Bobbin format
- Surface mount
- Integral EMI shield
- Compact size
- Tape and reel packaging
- UL 94V-0 materials
- J-STD-020-C reflow

**DESCRIPTION**

The 4500 series is a lower profile version of our 4600 series range of bobbin-wound, shielded inductors. They are suitable for power-line filtering found in consumer electronics such as desktop computers, LED applications 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.

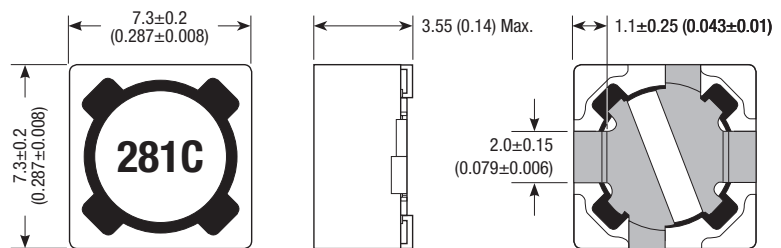
**PIN CONNECTIONS (TOP VIEW)**



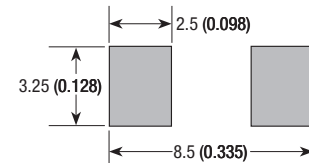
**SELECTION GUIDE**

Order Code	Inductance (10kHz, 0.1VAC) ±20%	DC Current <sup>1</sup>	DC Resistance
	Nom.	Max.	Max.
	µH	A	mΩ
<b>45281C</b>	0.28 (±30%)	8.0	9
<b>45541C</b>	0.54 (±30%)	7.0	11
<b>45102C</b>	1.0 (±30%)	6.0	14
<b>45152C</b>	1.5 (±30%)	5.5	17
<b>45222C</b>	2.2 (±30%)	4.5	26
<b>45332C</b>	3.3 (±30%)	3.7	34
<b>45472C</b>	4.7 (±30%)	3.2	47
<b>45682C</b>	6.8 (±30%)	2.6	66
<b>45103C</b>	10	2.2	82
<b>45153C</b>	15	1.8	120
<b>45223C</b>	22	1.35	180
<b>45333C</b>	33	1.25	250
<b>45473C</b>	47	1.05	360
<b>45683C</b>	68	0.82	510
<b>45104C</b>	100	0.70	710
<b>45154C</b>	150	0.58	1000
<b>45224C</b>	220	0.50	1550
<b>45334C</b>	330	0.35	2540
<b>45474C</b>	470	0.32	3250
<b>45684C</b>	680	0.26	5000
<b>45105C</b>	1000	0.23	6500

**MECHANICAL DIMENSIONS**



**Recommended Footprint Details\***



\*Distance between the outside ends of the terminations is 7.1±0.1 (0.28±0.004)  
Unless otherwise stated, all dimensions in mm (inches) ± 0.25 (0.010).  
Package weight: 0.64g Typ.

**ABSOLUTE MAXIMUM RATINGS**

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

**SOLDERING INFORMATION<sup>2</sup>**

Peak reflow solder temperature	250°C
Pin finish	Tin

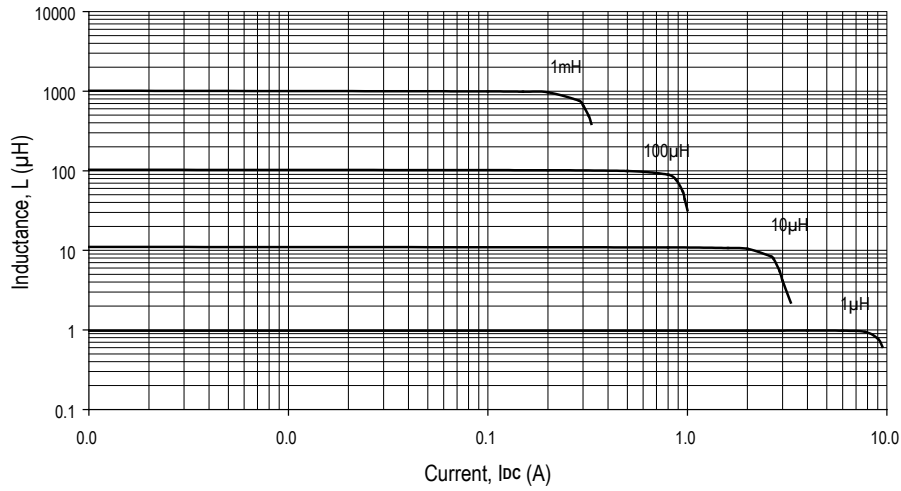
Specifications typical at T<sub>A</sub> = 25°C

- 1 Maximum DC current occurs when either the inductance falls to 75% of its nominal value or when its temperature rise reaches 40°C, whichever is sooner.
- 2 For further information, please visit [www.cd4power.com/rohs](http://www.cd4power.com/rohs)

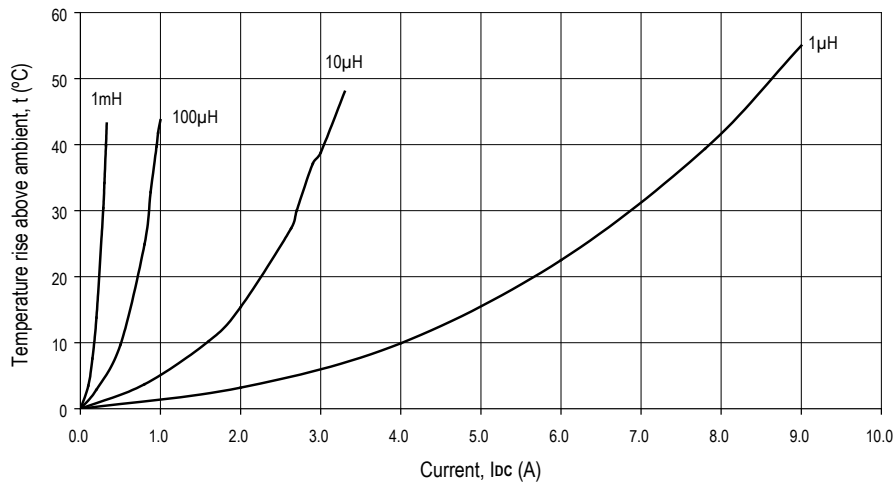


For full details go to  
[www.cd4power.com/rohs](http://www.cd4power.com/rohs)

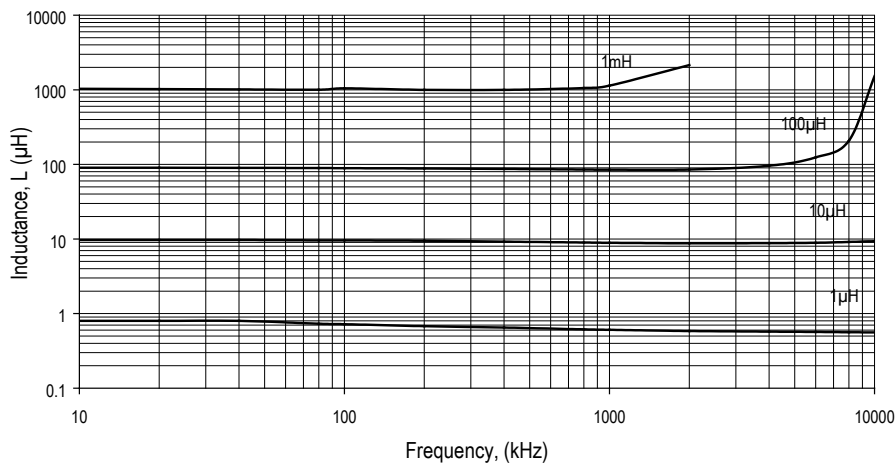
**INDUCTANCE Vs CURRENT**



**TEMPERATURE Vs CURRENT**

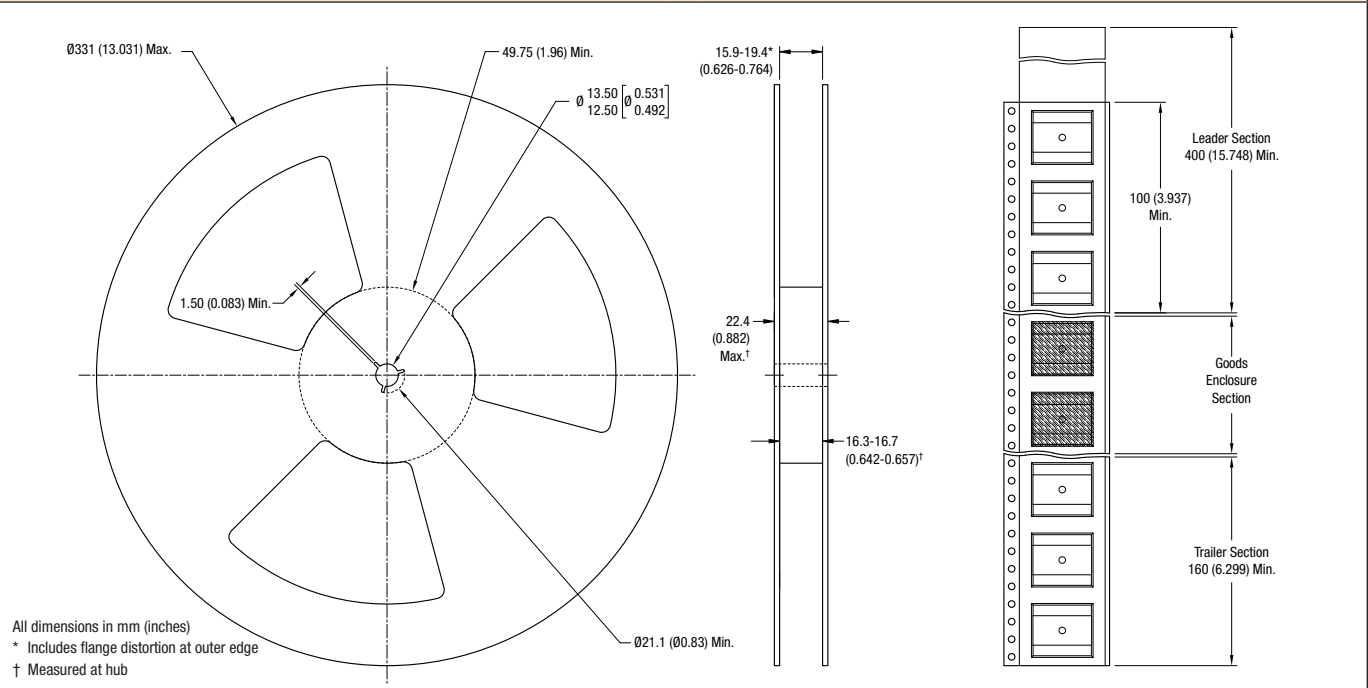


**INDUCTANCE Vs FREQUENCY**



**TAPE & REEL SPECIFICATIONS**

**REEL OUTLINE DIMENSIONS**



**TAPE OUTLINE DIMENSIONS**

