

Shielded Surface Mount Power Inductors



Murata Power Solutions

muRata

FEATURES

RoHS	comp	liant
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■ 0.28µH to 1.0mH

■ Up to 8A loc

■ Bobbin format

Surface mount

Integral EMI shield

Compact size

Tape and reel packaging

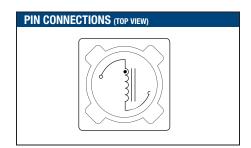
■ UL 94V-0 materials

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.

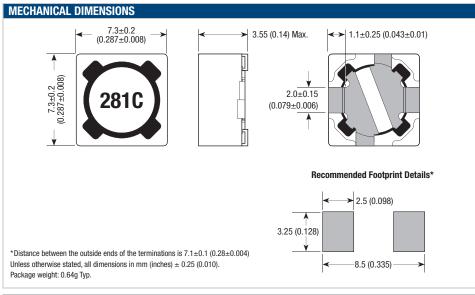
These surface mount inductors are extremely compact and have an integral shield, making them useful in EMI sensitive applications.







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



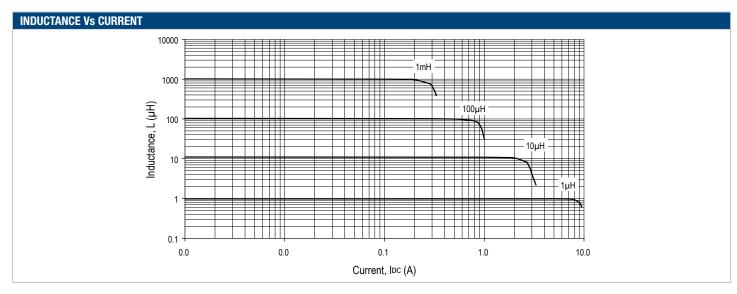
ABSOLUTE MAXIMUM RATINGS	
Operating temperature range	-40°C to 125°C
Storage temperature range	-40°C to 150°C

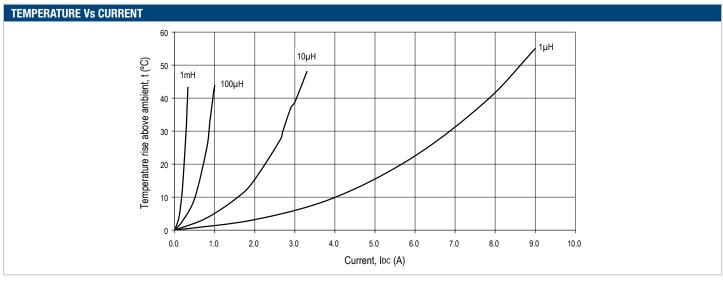
SOLDERING INFORMATION ²		
Peak reflow solder temperature	250°C	
Pin finish	Tin	

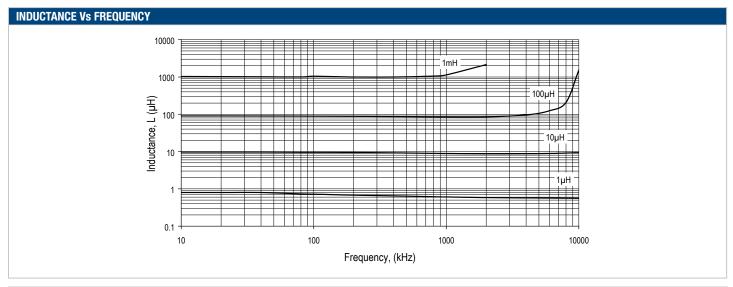
Specifications typical at $T_{\Delta} = 25^{\circ}C$

- 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.murata-ps.com/rohs

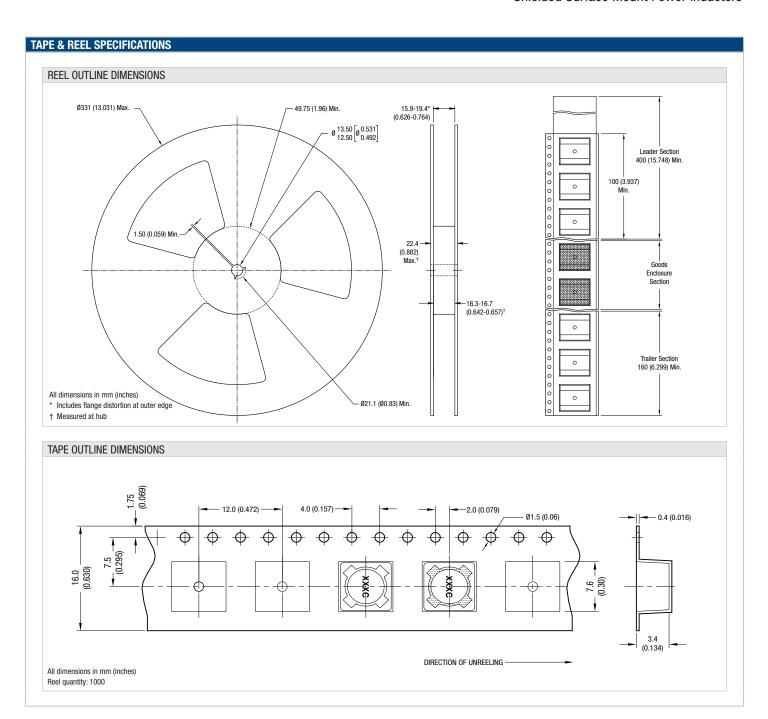
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