

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Murata Power Solutions



FEATURES

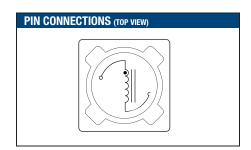
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- 0.28µH to 1.0mH
- Up to 8A loc
- Bobbin format
- Surface mount
- Integral EMI shield
- Compact size
- Tape and reel packaging
- UL 94V-0 materials
- J-STD-020-C reflow

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.







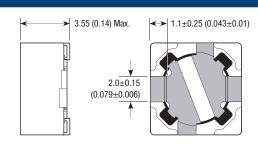
4500 Series

Shielded Surface Mount Power Inductors

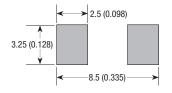
ECTION GUIDE				
Order Code	Inductance (10kHz, 0.1VAc) ±20%	DC Current ¹	DC Resistance	
	Nom.	Max.	Max.	
	μН	Α	mΩ	
45281C	0.28 (±30%)	8.0	9	
45541C	0.54 (±30%)	7.0	11	
45102C	1.0 (±30%)	6.0	14	
45152C	1.5 (±30%)	5.5	17	
45222C	2.2 (±30%)	4.5	26	
45332C	3.3 (±30%)	3.7	34	
45472C	4.7 (±30%)	3.2	47	
45682C	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	

MECHANICAL DIMENSIONS 7.3±0.2 (0.287±0.008)





Recommended Footprint Details*



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

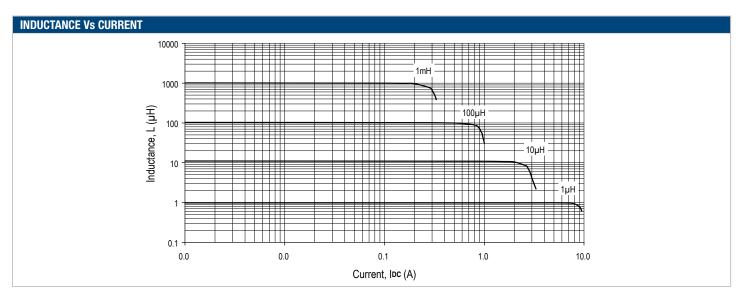
ABSOLUTE MAXIMUM RATINGS				
Operating temperature range	-40°C to 125°C			
Storage temperature range	-40°C to 150°C			

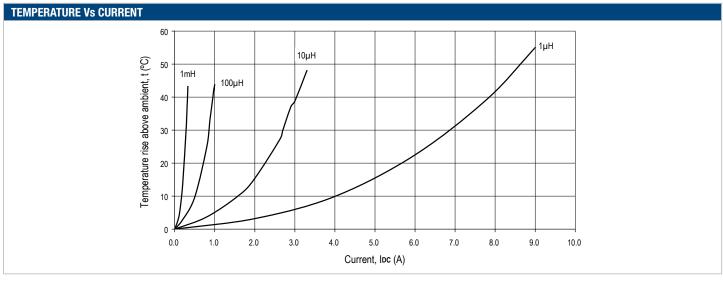
SOLDERING INFORMATION ²			
Peak reflow solder temperature	250°C		
Pin finish	Tin		

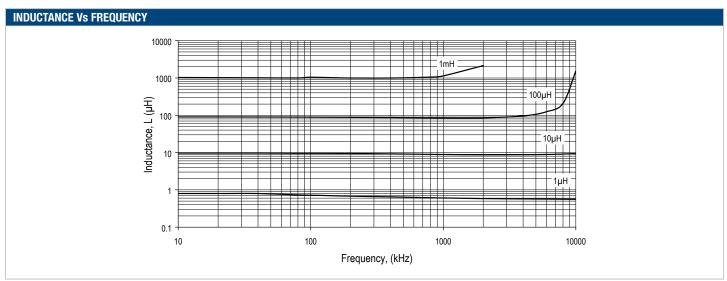
Specifications typical at $T_{\Delta} = 25^{\circ}C$

- 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

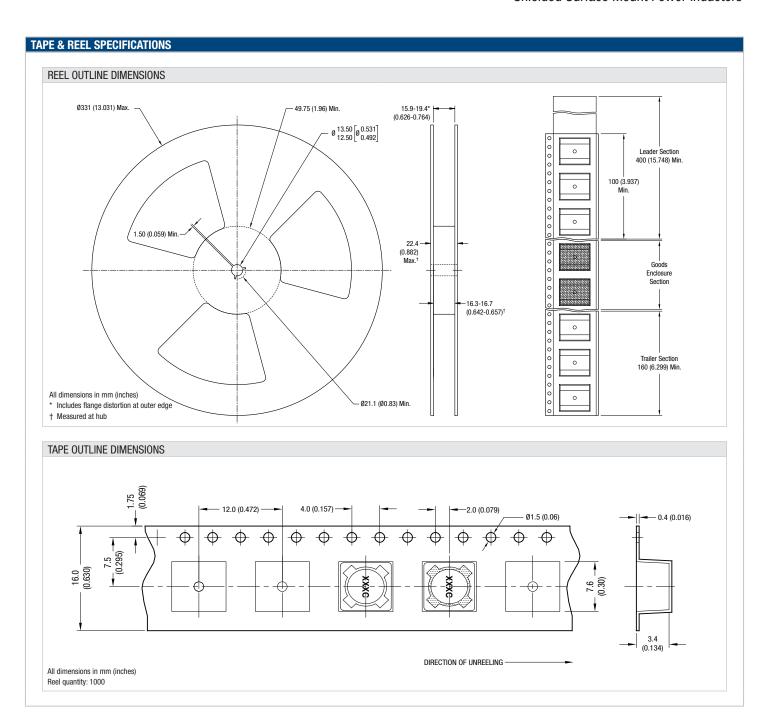
Shielded Surface Mount Power Inductors







Shielded Surface Mount Power Inductors



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