



FEATURES

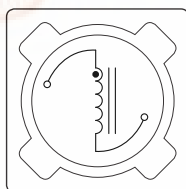
- RoHS compliant
- 0.28μH to 1.0mH
- Up to 8.7A I_{DC}
- Bobbin format
- Surface mount
- Integral EMI shield
- Compact size
- Tape and reel packaging
- UL 94V-0 materials
- J-STD-020-C reflow

DESCRIPTION

The 4600 series is a range of bobbin-wound, shielded inductors 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.

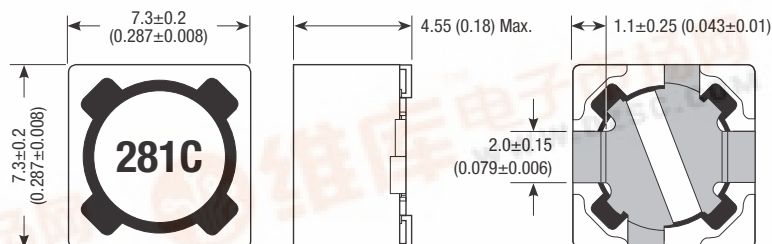
PIN CONNECTIONS (TOP VIEW)



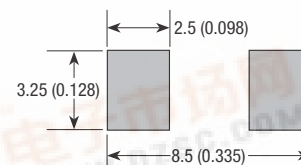
SELECTION GUIDE

Order Code	Inductance (10kHz, 0.1V _{AC}) ±20%	DC Current ¹	DC Resistance
	Nom.	Max.	Max.
	μH	A	mΩ
46281C	0.28 (±30%)	8.7	8
46541C	0.54 (±30%)	7.7	10
46102C	1.0 (±30%)	6.8	13
46152C	1.5 (±30%)	6.3	15
46222C	2.2 (±30%)	5.0	21
46332C	3.3 (±30%)	4.3	29
46472C	4.7 (±30%)	3.7	37
46682C	6.8 (±30%)	3.1	52
46103C	10	2.4	66
46153C	15	2.2	94
46223C	22	1.8	120
46333C	33	1.45	190
46473C	47	1.25	260
46683C	68	1.05	360
46104C	100	0.86	500
46154C	150	0.72	720
46224C	220	0.57	1050
46334C	330	0.46	1850
46474C	470	0.39	2800
46684C	680	0.32	3900
46105C	1000	0.27	4900

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: 0.8g Typ.

ABSOLUTE MAXIMUM RATINGS

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

SOLDERING INFORMATION²

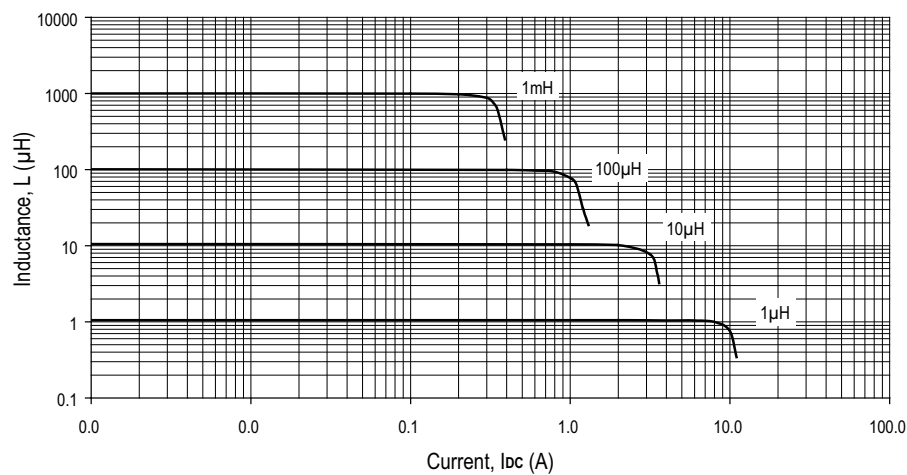
Peak reflow solder temperature	250°C
Pin finish	Tin

Specifications typical at T_A = 25°C

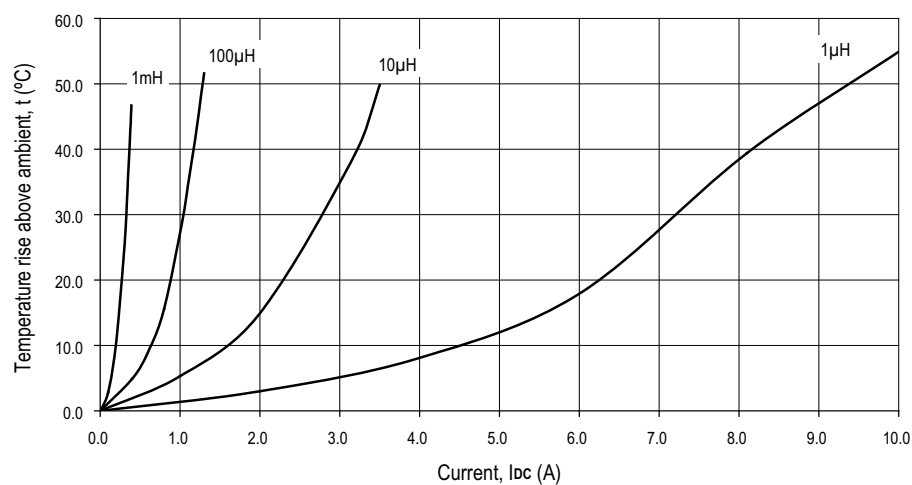
1 Maximum DC current occurs when either the inductance falls to 75% of its nominal value or when its temperature rise reaches 40°C, whichever is sooner.

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

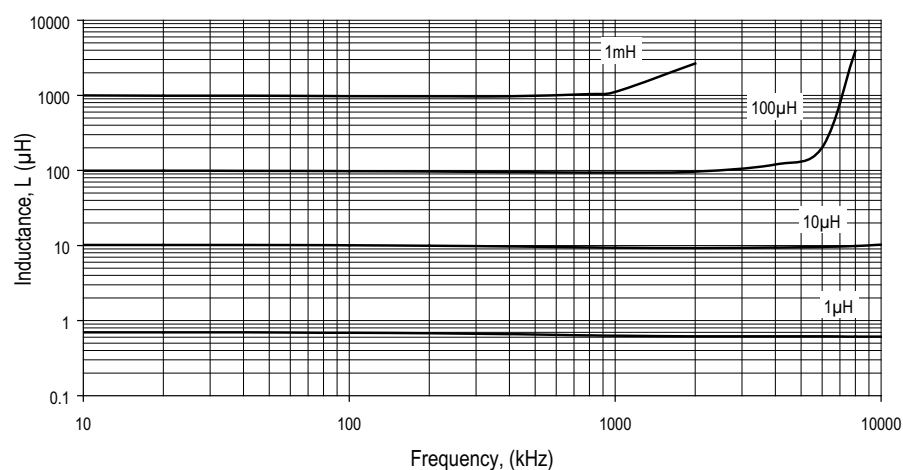
INDUCTANCE Vs CURRENT



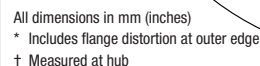
TEMPERATURE Vs CURRENT



INDUCTANCE Vs FREQUENCY



REEL OUTLINE DIMENSIONS



Technical drawing of a mechanical part, showing a top view and a side view. The top view is a rectangular plate with a width of 16.0 mm (0.630 in) and a length of 12.0 mm (0.472 in). It features a series of 12 holes along its length, with a hole diameter of 1.5 mm (0.06 in). The holes are spaced at 4.0 mm (0.157 in) intervals. The side view shows a profile with a total height of 7.6 mm (0.30 in) and a base width of 4.7 mm (0.185 in). The top view also shows a central section with a width of 4.0 mm (0.157 in) and a hole diameter of 1.5 mm (0.06 in). The side view shows a profile with a total height of 7.6 mm (0.30 in) and a base width of 4.7 mm (0.185 in). The top view also shows a central section with a width of 4.0 mm (0.157 in) and a hole diameter of 1.5 mm (0.06 in).

All dimensions in mm (inches)
Reel quantity: 1000