SMD Power Inductors

APW Series

Features:

- Ideal for a variety of DC-DC converter Inductor Applications.
- Low DC resistance and large permissible DC current.

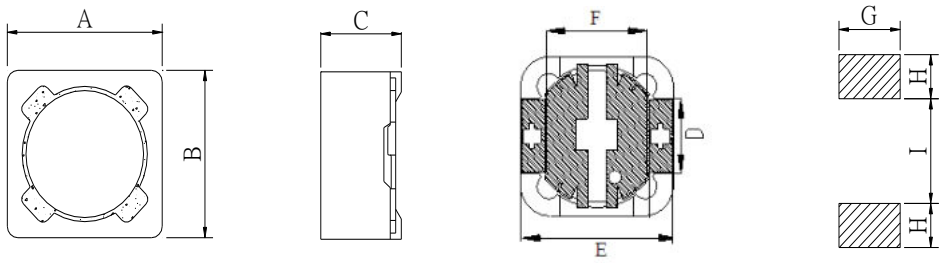
Applications:

- Excellent for power line DC-DC conversion applications used in hard disks, notebook computers and other electronic equipments.

Test Equipment and Conditions:

- Inductance is measured with HP-4284A LCR meter or equivalent.
- Maximum allowable DC current is that which causes 25% inductance reduction of the initial value, or coil temperature to rise by 40℃, whichever is smaller.(Reference ambient temperature 20℃) .
- Operating temperature : -40℃~ +125℃.

External dimensions (Unit:mm)



TYPE	A	B	C	D	E	F	G	H	I
RND 165APW07A45xxxx	7.5Max	7.5Max	4.5Max	1.8	7.2	5.4	2.2	1.5	4.8
RND 165APW12B60xxxx	12.3Max	12.3Max	6.0Max	5.0	11.8	7.6	5.4	2.8	7.0
RND 165APW12B80xxxx	12.3Max	12.3Max	8.0Max	5.0	11.8	7.6	5.4	2.8	7.0
RND 165APW12B10xxxx	12.3Max	12.3Max	10.0Max	5.0	11.8	7.6	5.4	2.8	7.0

Part Number Code (example)

RND 165APW	07	B	45	M	100
A	B	C	D	E	F

A:	Type of product	Power Inductor
B:	Dimensions(mm)	07：7.5x7.5 12：12.3x12.3
C:	Materials	NO use
D:	Thickness(mm)	60：6.0 45：4.5
E:	Tolerance	M：±20%
F:	Inductance	100=10uH

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RND components

Product Range:

Part Number	Inductance (µH)	Test Frequency (KHz)	DC Resistance (Ω)Max.	Rated DC Current (A)Max.
RND 165APW07A45M101	100	100	0.61	0.6
RND 165APW07A45M102	1000	100	6	0.18
RND 165APW07A45M1R0	1	100	0.006	11.5
RND 165APW07A45M221	220	100	1.17	0.36
RND 165APW07A45M330	33	100	0.17	0.96
RND 165APW07A45M470	47	100	0.26	0.88
RND 165APW07A45M680	68	100	0.38	0.69
RND 165APW12B10M101	100	100	0.13	2.45
RND 165APW12B10M102	1000	100	1.25	0.78
RND 165APW12B10M150	15	100	0.026	5.2
RND 165APW12B10M151	150	100	0.18	1.9
RND 165APW12B10M152	1500	100	1.25	0.58
RND 165APW12B10M182	1800	100	2	0.54
RND 165APW12B10M221	220	100	0.250	1.7
RND 165APW12B10M330	33	100	0.053	3.6
RND 165APW12B10M470	47	100	0.063	3.45
RND 165APW12B10M471	470	100	0.47	1.25
RND 165APW12B10M680	68	100	0.093	2.85
RND 165APW12B10M681	680	100	0.073	0.95
RND 165APW12B60M100	10	100	0.025	4
RND 165APW12B60M102	1000	100	1.53	0.4
RND 165APW12B60M151	150	100	0.23	1
RND 165APW12B60M180	18	100	0.034	3
RND 165APW12B60M221	220	100	0.45	0.8
RND 165APW12B60M271	270	100	0.5	0.75
RND 165APW12B60M470	47	100	0.075	1.8
RND 165APW12B60M471	470	100	0.77	0.58
RND 165APW12B60M4R7	4.7	100	0.012	5.3
RND 165APW12B60M560	56	100	0.11	1.7
RND 165APW12B60M6R8	6.8	100	0.014	4.7
RND 165APW12B60M820	82	100	0.14	1.4
RND 165APW12B80M100	10	100	0.021	5.4
RND 165APW12B80M101	100	100	0.15	1.7
RND 165APW12B80M102	1000	100	1.3	0.55
RND 165APW12B80M150	15	100	0.027	4.5
RND 165APW12B80M151	150	100	0.19	1.42
RND 165APW12B80M180	18	100	0.039	3.9

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Product Range:

Part Number	Inductance (µH)	Test Frequency (KHz)	DC Resistance (Ω)Max.	Rated DC Current (A)Max.
RND 165APW12B80M220	22	100	0.043	3.6
RND 165APW12B80M221	220	100	0.035	1.16
RND 165APW12B80M271	270	100	0.039	1.06
RND 165APW12B80M330	33	100	0.064	3
RND 165APW12B80M3R3	3.3	100	0.013	7.5
RND 165APW12B80M470	47	100	0.077	2.5
RND 165APW12B80M4R7	4.7	100	0.015	6.8
RND 165APW12B80M560	56	100	0.097	2.35
RND 165APW12B80M5R6	5.6	100	0.018	5.2