

## Features:

- Magnetic-resin shielded construction reduces buzz noise to ultra-low levels.
- Metallisation on Ferrite Core results in excellent shock resistance and damage-free durability.
- Closed magnetic circuit design reduces leakage flux and Electro Magnetic Interference (EMI).
- 35% high current rating than conventional inductors of equal size.

## Applications:

- LED Lighting
- Flat-screen TVs, blue-ray disc recorders
- Notebooks, desktop computers, servers, graphic cards
- Portable gaming devices, personal navigation systems, personal multimedia devices

## Test Equipment and Conditions:

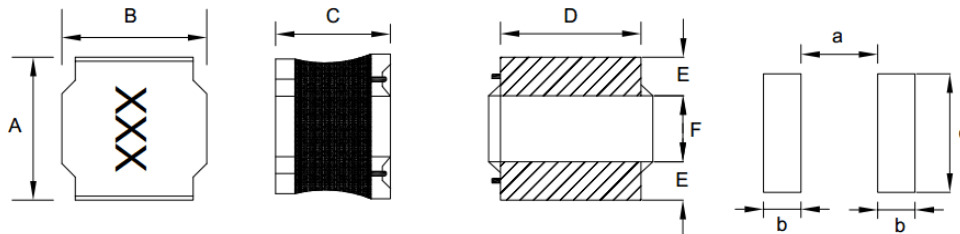
- Inductance is measured with IM3536 LCR meter or equivalent.
- Maximum allowable DC current is that which causes 35% inductance reduction of the initial value, or coil temperature to rise by 40°C, whichever is smaller. (Reference ambient temperature 25°C) .
- Operating temperature range: -40°C~ +125°C.

## Part Number Code

RND 165ABG 25 A 10 N R47  
 A B C D E F

A: Series Name Power Inductors  
 B: Dimensions(mm) 25 : 2.5×2.0  
 C: Materials NO use  
 D: Thickness(mm) 10 : 1.05 Max  
 E: Tolerance N : ±30% M : ±20%  
 F: Inductance R47=0.47uH

## External dimensions (Unit:mm)



Type	A	B	C	D Typ.	E Typ.	F Typ.	a Typ.	b Typ.	c Typ.	Q'TY/Reel
RND 165ABG03A15	3.0±0.2	3.0±0.2	1.5Max	2.55	0.9	1.2	0.9	1.2	3.1	2000
RND 165ABG06A45	6.0±0.3	6.0±0.3	4.5Max	4.9	1.65	2.7	2.4	1.95	5.2	1500
RND 165ABG10A50	10.0±0.3	10.0±0.3	5.1Max	4.2	1.7	6.4	6.2	2.0	5.5	700

# SMD Power Inductors

ABG Series



## Product Range:

Part Number	Inductance( $\mu$ H) @100KHz,1V	DC Resistance ( $\Omega$ ) $\pm$ 30%	Min Self-Resonant Frequency(MHz)	Heat Rating Current I <sub>rms</sub> (A)	Saturation Current I <sub>sat</sub> (A)
RND 165ABG06A45M100	10.0 $\pm$ 20%	0.046	15	2.52	3.30
RND 165ABG06A45M101	100.0 $\pm$ 20%	0.416	4.2	0.82	0.98
RND 165ABG06A45M102	1000.0 $\pm$ 20%	4.000	0.5	0.15	0.15
RND 165ABG06A45M150	15.0 $\pm$ 20%	0.065	12	2.11	2.58
RND 165ABG06A45M151	150.0 $\pm$ 20%	0.559	4.2	0.72	0.82
RND 165ABG06A45M1R0	1.0 $\pm$ 20%	0.010	100	5.29	10.15
RND 165ABG06A45M1R5	1.5 $\pm$ 20%	0.011	65	5.10	9.06
RND 165ABG06A45M220	22.0 $\pm$ 20%	0.085	10	1.85	2.11
RND 165ABG06A45M221	220.0 $\pm$ 20%	0.803	3.5	0.61	0.72
RND 165ABG06A45M2R2	2.2 $\pm$ 20%	0.014	52	4.74	6.95
RND 165ABG06A45M330	33.0 $\pm$ 20%	0.132	7.8	1.49	1.70
RND 165ABG06A45M331	330.0 $\pm$ 20%	1.223	2.8	0.59	0.59
RND 165ABG06A45M3R3	3.3 $\pm$ 20%	0.020	32	3.81	6.08
RND 165ABG06A45M470	47.0 $\pm$ 20%	0.193	6.4	1.24	1.44
RND 165ABG06A45M471	470.0 $\pm$ 20%	2.600	2.1	0.20	0.20
RND 165ABG06A45M4R7	4.7 $\pm$ 20%	0.024	24	3.40	5.12
RND 165ABG06A45M680	68.0 $\pm$ 20%	0.278	6.4	1.03	1.24
RND 165ABG06A45M681	680.0 $\pm$ 20%	2.200	1.2	0.25	0.25
RND 165ABG06A45M6R8	6.8 $\pm$ 20%	0.030	20	3.09	4.02
RND 165ABG03A15M100	10.0 $\pm$ 20%	0.241	41	0.79	0.74
RND 165ABG03A15M101	100.0 $\pm$ 20%	3.000	2	0.3	0.26
RND 165ABG03A15M150	15.0 $\pm$ 20%	0.337	30	0.68	0.67
RND 165ABG03A15M220	22.0 $\pm$ 20%	0.443	23	0.59	0.54
RND 165ABG03A15M330	33.0 $\pm$ 20%	0.790	20	0.44	0.45
RND 165ABG03A15M3R3	3.3 $\pm$ 20%	0.077	68	1.40	1.36
RND 165ABG03A15M470	47.0 $\pm$ 20%	1.204	14	0.36	0.36
RND 165ABG03A15M680	68.0 $\pm$ 20%	2.600	11	0.24	0.29
RND 165ABG03A15M6R8	6.8 $\pm$ 20%	0.193	39	0.88	0.88
RND 165ABG03A15N1R0	1.0 $\pm$ 30%	0.036	150	2.16	2.37
RND 165ABG03A15N1R5	1.5 $\pm$ 30%	0.048	100	1.75	2.37
RND 165ABG03A15N2R2-F	2.2 $\pm$ 30%	0.058	86	1.65	1.65
RND 165ABG03A15N4R7-F	4.7 $\pm$ 20%	0.120	46	1.12	1.13
RND 165ABG10A50M100-NL	10.0	0.035	15	4.4	8.2
RND 165ABG10A50M101-NL	100.0	0.240	4	1.7	2.5
RND 165ABG10A50M150-NL	15.0	0.041	13	3.9	7.0
RND 165ABG10A50M151-NL	150.0	0.390	3	1.3	2.2
RND 165ABG10A50M1R0-NL	1.0	0.010	56	10.0	12.0
RND 165ABG10A50M1R5-NL	1.5	0.011	54	9.0	11.8

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RND 165ABG10A50M220-NL	22.0	0.050	11	3.6	5.8
RND 165ABG10A50M221-NL	220.0	0.560	2	1.1	1.8
RND 165ABG10A50M2R2-NL	2.2	0.012	47	8.0	11.3
RND 165ABG10A50M330-NL	33.0	0.071	8	3.3	5.0
RND 165ABG10A50M3R3-NL	3.3	0.014	27	7.5	10.7
RND 165ABG10A50M470-NL	47.0	0.112	7	2.8	4.0
RND 165ABG10A50M471-NL	470.0	1.260	1	0.7	0.5
RND 165ABG10A50M4R7-NL	4.7	0.015	23	6.8	10.0
RND 165ABG10A50M680-NL	68.0	0.160	5	2.3	3.3
RND 165ABG10A50M6R8-NL	6.8	0.024	20	5.9	9.5