

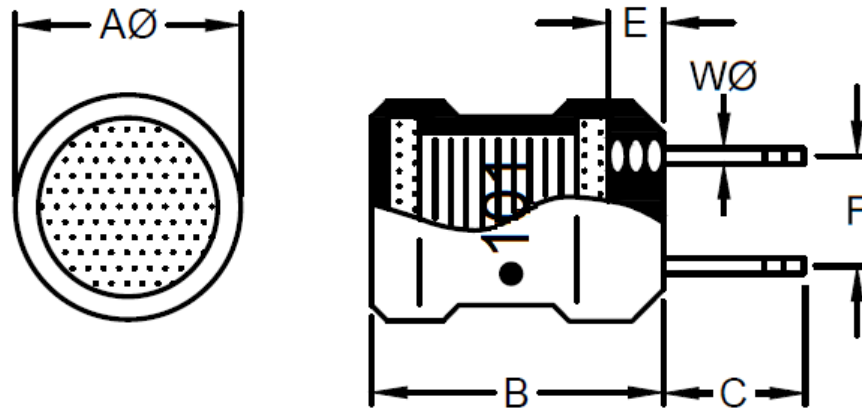
1. Part No. Expression

R C B 0 9 1 2 1 0 1 K Z F

(a) (b) (c) (d) (e) (f)

- | | |
|---------------------|--------------------|
| (a) Series Code | (d) Tolerance Code |
| (b) Dimension Code | (e) Special Code |
| (c) Inductance Code | (f) Packaging Code |

2. Configuration & Dimensions (Unit: mm)



Note: Marking: “ ● ” Start + Inductance Code

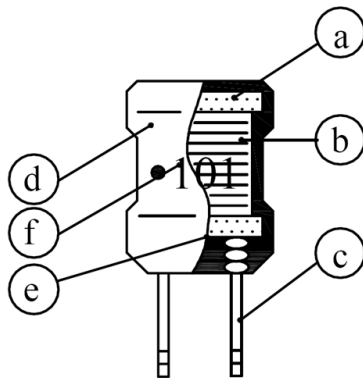
A	B	C	E	F	W
8.70±0.50	12.00±1.00	4.00±1.00	2.50 Max	5.00±0.80	0.65±0.10

3. Schematic



NOTE: Specifications subject to change without notice. Please check our website for latest information.

4. Material List



- (a) Core
- (b) Wire
- (c) Lead
- (d) Tube
- (e) Adhesive
- (f) Ink

5. General Specifications

- (a) Operating Temp.: - 40°C to + 125°C (including self-temperature rise)
- (b) Storage Temp.: -40°C to +125°C (on board)
- (c) Heat Rated Current (Irms) will cause the coil temperature rise ΔT of 20°C Max.
- (d) Saturation Current (Isat) will cause inductance L_0 to drop approximately 10%.
- (e) Storage Condition (Component in its packaging)
 - i) Temperature: Less than 40°C
 - ii) Humidity: Less than 60% RH

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6. Electrical Characteristics

Part Number	Inductance (μ H) @0A $\pm 10\%$	Q Min	Test Frequency	SRF (MHz) Min	DCR (Ω) Max	Isat (mA) Max	Irms (mA) Max
RCB0912101KZF	100	45	1.0V/796KHz	3.20	0.85	350	350
RCB0912121KZF	120	45	1.0V/796KHz	3.00	0.95	330	330
RCB0912151KZF	150	45	1.0V/796KHz	2.80	1.05	310	310
RCB0912181KZF	180	45	1.0V/796KHz	2.50	1.15	300	300
RCB0912221KZF	220	40	1.0V/796KHz	2.10	1.30	280	280
RCB0912271KZF	270	40	1.0V/796KHz	2.00	1.50	260	260
RCB0912331KZF	330	40	1.0V/796KHz	1.95	1.70	240	240
RCB0912391KZF	390	40	1.0V/796KHz	1.85	1.85	230	230
RCB0912471KZF	470	35	1.0V/796KHz	1.55	2.30	210	210
RCB0912561KZF	560	35	1.0V/796KHz	1.30	2.55	200	200
RCB0912681KZF	680	35	1.0V/796KHz	1.15	2.85	190	190
RCB0912821KZF	820	35	1.0V/796KHz	1.00	3.10	180	180
RCB0912102KZF	1000	50	1.0V/252KHz	0.90	4.10	160	160
RCB0912122KZF	1200	50	1.0V/252KHz	0.80	4.70	150	150
RCB0912152KZF	1500	50	1.0V/252KHz	0.70	5.80	130	130
RCB0912182KZF	1800	50	1.0V/252KHz	0.60	7.40	115	115
RCB0912222KZF	2200	50	1.0V/252KHz	0.55	8.40	110	110
RCB0912272KZF	2700	50	1.0V/252KHz	0.50	9.60	95	95
RCB0912332KZF	3300	50	1.0V/252KHz	0.45	10.5	80	80
RCB0912392KZF	3900	50	1.0V/252KHz	0.40	12.0	70	70
RCB0912472KZF	4700	45	1.0V/252KHz	0.38	14.0	65	65
RCB0912562KZF	5600	45	1.0V/252KHz	0.36	16.0	60	60

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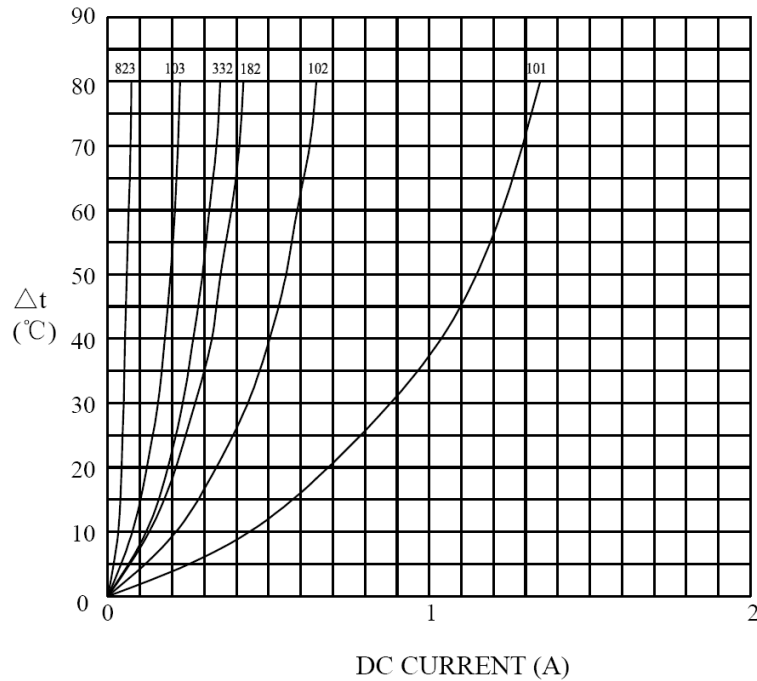
Part Number	Inductance (μ H) @0A $\pm 10\%$	Q Min	Test Frequency	SRF (MHz) Min	DCR (Ω) Max	Isat (mA) Max	Irms (mA) Max
RCB0912682KZF	6800	40	1.0V/252KHz	0.34	18.0	55	55
RCB0912822KZF	8200	40	1.0V/252KHz	0.32	24.5	50	50
RCB0912103KZF	10000	50	1.0V/79.6KHz	0.30	32.0	45	45
RCB0912123KZF	12000	50	1.0V/79.6KHz	0.28	36.0	40	40
RCB0912153KZF	15000	50	1.0V/79.6KHz	0.26	48.0	35	35
RCB0912183KZF	18000	45	1.0V/79.6KHz	0.24	52.0	30	30
RCB0912223KZF	22000	45	1.0V/79.6KHz	0.22	58.0	28	28
RCB0912273KZF	27000	45	1.0V/79.6KHz	0.20	62.0	26	26
RCB0912333KZF	33000	45	1.0V/79.6KHz	0.18	90.0	24	24
RCB0912393KZF	39000	40	1.0V/79.6KHz	0.17	100	22	22
RCB0912473KZF	47000	35	1.0V/79.6KHz	0.16	150	20	20
RCB0912563KZF	56000	35	1.0V/79.6KHz	0.15	200	18	18
RCB0912683KZF	68000	35	1.0V/79.6KHz	0.14	220	16	16
RCB0912823KZF	82000	30	1.0V/79.6KHz	0.12	240	14	14

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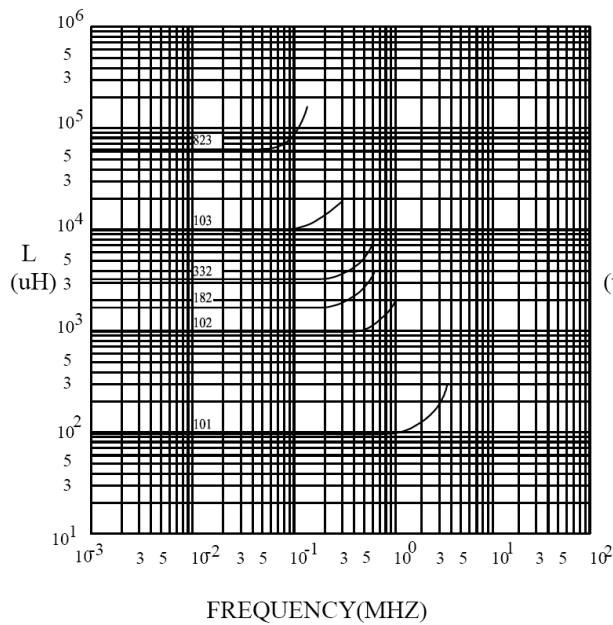


7. Characteristics Curves

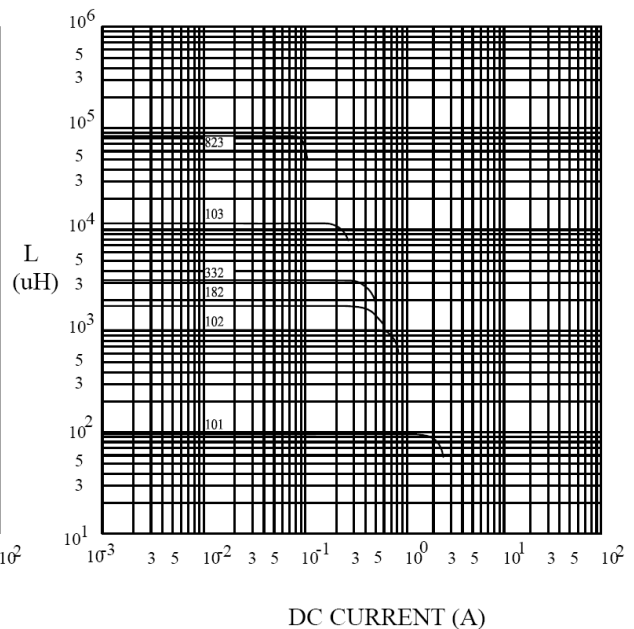
@ TEMP. RISE VS. DC SUPERPOSITION RESPONSE CURVE



@ INDUCTANCE VS. FREQUENCY RESPONSE CURVE



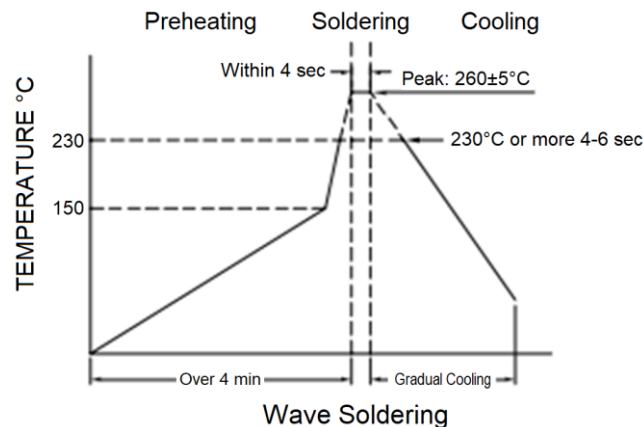
@ INDUCTANCE VS. DC SUPERPOSITION RESPONSE CURVE



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8. Soldering Specification

Mildly activated rosin fluxes are preferred. The minimum amount of solder can lead to damage from the stresses caused by the difference in coefficients of expansion between solder, chip and substrate. Our terminations are suitable for wave soldering.



9. Packaging Information (Unit: Pcs)

PE Bag	200
Inner Box	1,000
Carton	4,000

Application Notice

1. Storage Conditions

To maintain the solderability of terminal electrodes:

- (a) Recommended products should be used within 12 months from the time of delivery.
- (b) The packaging material should be kept where no chlorine or sulfur exists in the air.

2. Transportation

- (a) Products should be handled with care to avoid damage or contamination from perspiration and skin oils.
- (b) Vacuum pick up is strongly recommended for individual components.
- (c) Bulk handling should ensure that abrasion and mechanical shock are minimized.

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