

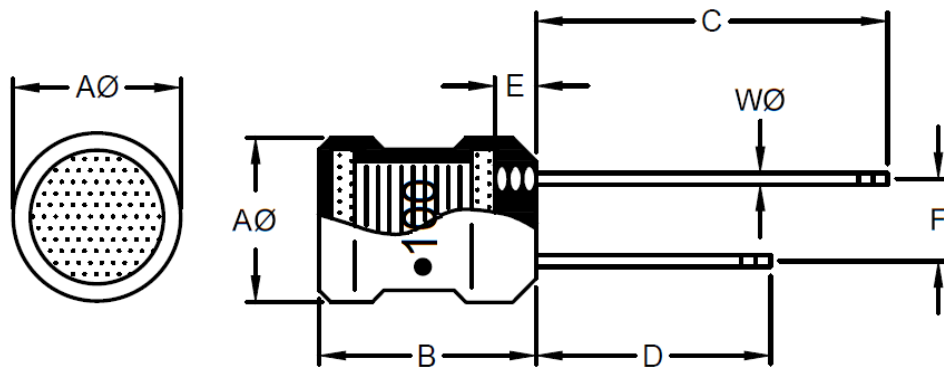
1. Part No. Expression

RCB 0610 100 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 |

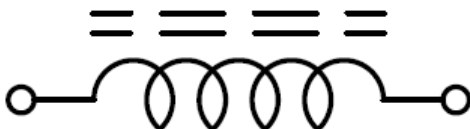
2. Configuration & Dimensions (Unit: mm)



Note: Marking: “ • ” Start + Inductance Code

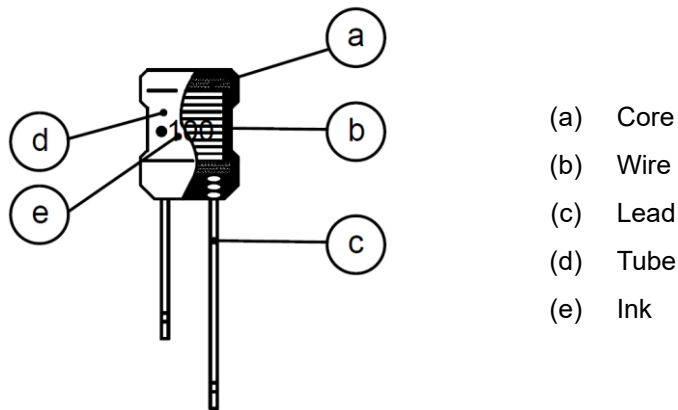
A	B	C	D	E	F	W
6.70±0.50	10.00±1.00	25.00±5.00	18.00±5.00	2.50 Max	3.00±0.50	0.65 Ref

3. Schematic



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

4. Material List



5. General Specifications

- (a) Operating Temp.: - 40°C to + 105°C (including self-temperature rise)
- (b) Storage Temp.: -40°C to +125°C (on board)
- (c) Heat Rated Current (I_{rms}) will cause the coil temperature rise ΔT of 20°C Max.
- (d) 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

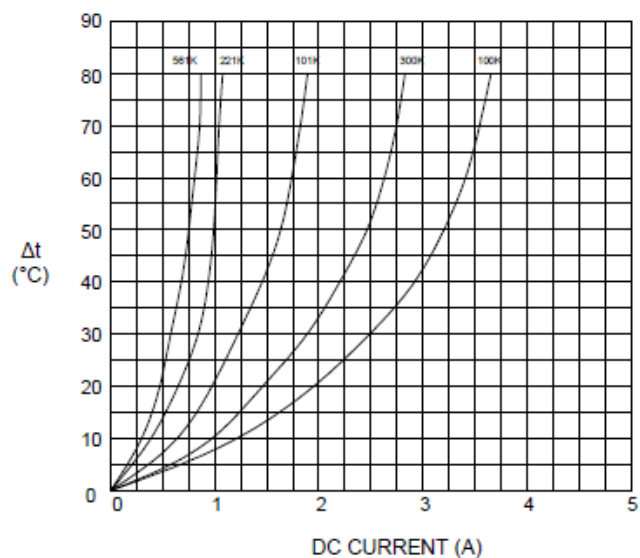
Part Number	Inductance (μ H) @0A $\pm 10\%$	Test Frequency	Q Min	Test Frequency	SRF (MHz) Min	RDC (Ω) Max	IDC (A) Max
RCB0610100KZF	10	1V/1KHz	20	1V/2.520MHz	16.0	0.07	1.10
RCB0610120KZF	12	1V/1KHz	20	1V/2.520MHz	12.0	0.08	1.00
RCB0610150KZF	15	1V/1KHz	20	1V/2.520MHz	10.0	0.09	0.90
RCB0610180KZF	18	1V/1KHz	20	1V/2.520MHz	10.0	0.10	0.75
RCB0610220KZF	22	1V/1KHz	20	1V/2.520MHz	9.0	0.12	0.70
RCB0610270KZF	27	1V/1KHz	20	1V/2.520MHz	8.0	0.13	0.65
RCB0610330KZF	33	1V/1KHz	20	1V/2.520MHz	7.0	0.15	0.60
RCB0610390KZF	39	1V/1KHz	20	1V/2.520MHz	6.0	0.16	0.55
RCB0610470KZF	47	1V/1KHz	20	1V/2.520MHz	6.0	0.18	0.45
RCB0610560KZF	56	1V/1KHz	20	1V/2.520MHz	5.0	0.21	0.40
RCB0610680KZF	68	1V/1KHz	20	1V/2.520MHz	5.0	0.24	0.36
RCB0610820KZF	82	1V/1KHz	20	1V/2.520MHz	5.0	0.35	0.34
RCB0610101KZF	100	1V/1KHz	20	1V/0.796MHz	4.0	0.40	0.32
RCB0610121KZF	120	1V/1KHz	20	1V/0.796MHz	4.0	0.45	0.30
RCB0610151KZF	150	1V/1KHz	20	1V/0.796MHz	3.5	0.50	0.28
RCB0610181KZF	180	1V/1KHz	20	1V/0.796MHz	3.0	0.75	0.26
RCB0610221KZF	220	1V/1KHz	20	1V/0.796MHz	3.0	0.90	0.24
RCB0610271KZF	270	1V/1KHz	20	1V/0.796MHz	2.5	1.00	0.22
RCB0610331KZF	330	1V/1KHz	20	1V/0.796MHz	2.5	1.10	0.20
RCB0610391KZF	390	1V/1KHz	20	1V/0.796MHz	2.0	1.20	0.18
RCB0610471KZF	470	1V/1KHz	20	1V/0.796MHz	2.0	1.50	0.16
RCB0610561KZF	560	1V/1KHz	20	1V/0.796MHz	2.0	1.80	0.15

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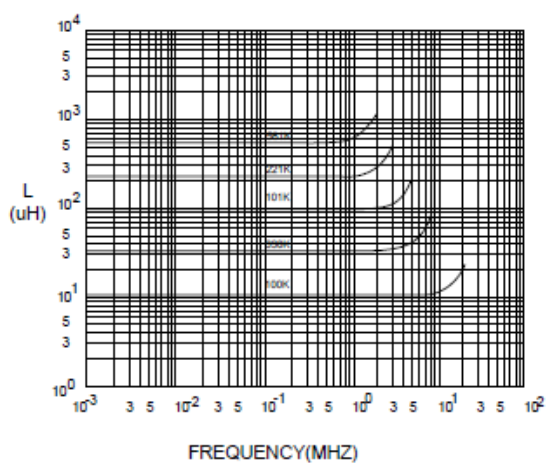


7. Characteristics Curves

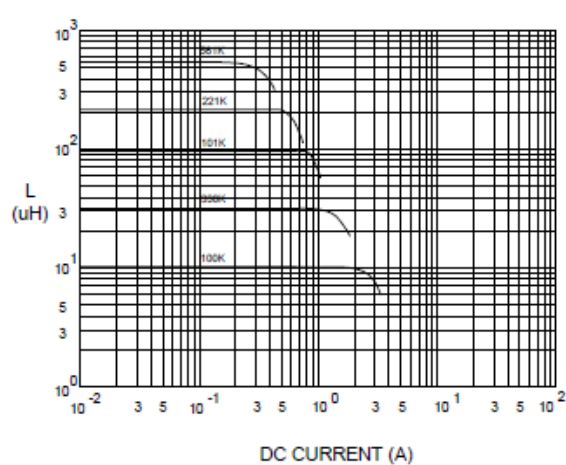
@ TEMP. RISE VS. DC SUPERPOSITION RESPONSE CURVE



@ INDUCTANCE VS. FREQUENCY RESPONSE CURVE



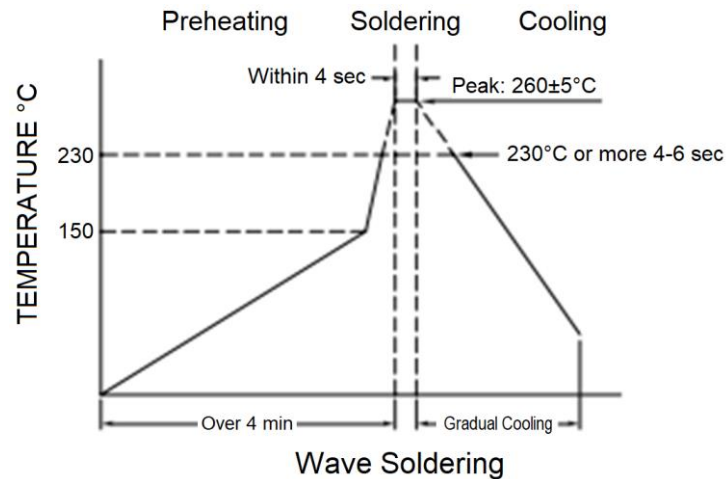
@ INDUCTANCE VS. DC SUPERPOSITION RESPONSE CURVE



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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)

INNER PACKAGE	INNER PACKAGE Q'TY
TRAY	400

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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