

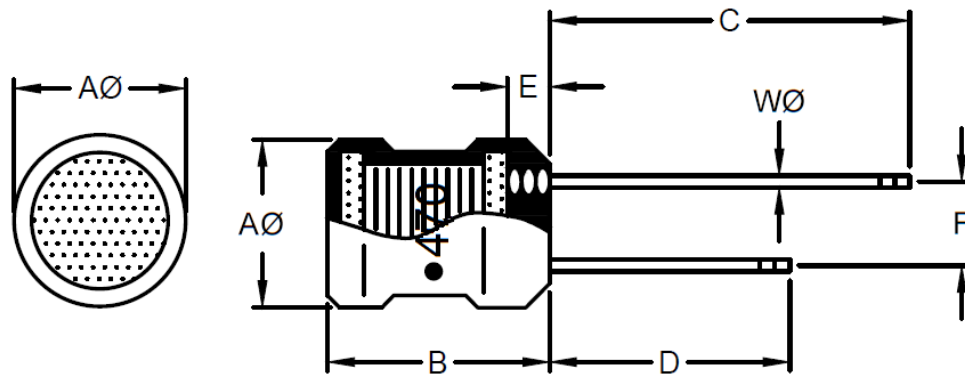
1. Part No. Expression

RCB0710470KZF

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

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

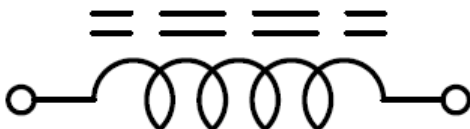
2. Configuration & Dimensions (Unit: mm)



Note: Marking: “ ● ” Start + Inductance Code

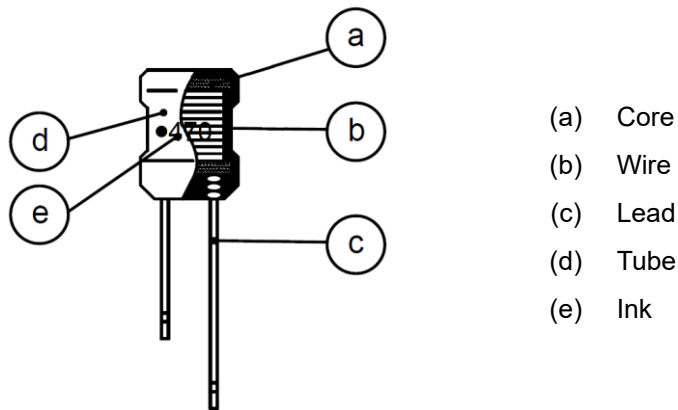
A	B	C	D	E	F	W
6.70±0.50	10.00±1.00	25.00±5.00	18.00±5.00	2.50 Max	3.00±0.50	0.65±0.10

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 + 125°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 $\pm 10\%$	Q Min	Test Frequency	SRF (MHz) Min	RDC (Ω) Max	IDC (mA) Max
RCB0710470KZF	47	30	1V/2.520MHz	6.00	0.40	450
RCB0710560KZF	56	30	1V/2.520MHz	5.50	0.45	400
RCB0710680KZF	68	30	1V/2.520MHz	5.00	0.50	360
RCB0710820KZF	82	30	1V/2.520MHz	4.50	0.50	340
RCB0710101KZF	100	45	1V/0.796MHz	4.20	0.60	320
RCB0710121KZF	120	45	1V/0.796MHz	3.60	0.70	300
RCB0710151KZF	150	45	1V/0.796MHz	3.40	0.90	280
RCB0710181KZF	180	45	1V/0.796MHz	3.20	1.00	260
RCB0710221KZF	220	45	1V/0.796MHz	3.00	1.20	240
RCB0710271KZF	270	45	1V/0.796MHz	2.80	1.40	220
RCB0710331KZF	330	45	1V/0.796MHz	2.50	1.60	200
RCB0710391KZF	390	45	1V/0.796MHz	2.30	1.80	180
RCB0710471KZF	470	45	1V/0.796MHz	2.20	2.00	160
RCB0710561KZF	560	45	1V/0.796MHz	2.00	2.50	150
RCB0710681KZF	680	45	1V/0.796MHz	1.70	2.90	140
RCB0710821KZF	820	45	1V/0.796MHz	1.50	3.10	130
RCB0710102KZF	1000	45	1V/0.252MHz	1.40	3.90	120
RCB0710122KZF	1200	60	1V/0.252MHz	1.10	4.40	110
RCB0710152KZF	1500	60	1V/0.252MHz	0.90	6.00	100
RCB0710182KZF	1800	60	1V/0.252MHz	0.80	7.00	90
RCB0710222KZF	2200	60	1V/0.252MHz	0.75	8.00	80
RCB0710272KZF	2700	60	1V/0.252MHz	0.70	9.00	70

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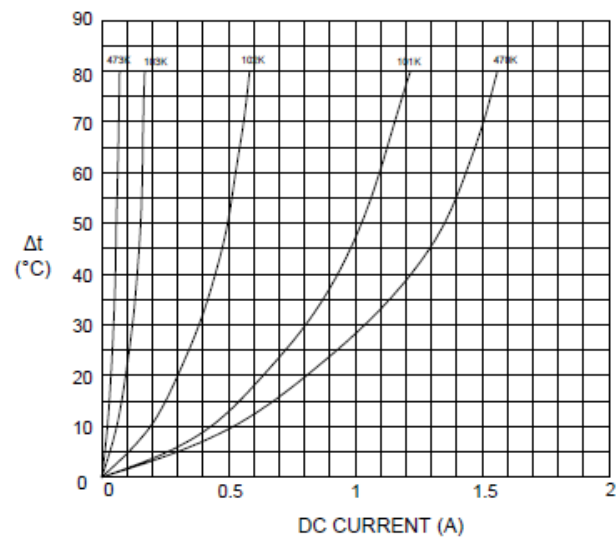
Part Number	Inductance (μ H) @0A 10%	Q Min	Test Frequency	SRF (MHz) Min	RDC (Ω) Max	IDC (mA) Max
RCB0710332KZF	3300	60	1V/0.252MHz	0.60	12.00	60
RCB0710392KZF	3900	60	1V/0.252MHz	0.55	14.00	55
RCB0710472KZF	4700	60	1V/0.252MHz	0.50	16.00	50
RCB0710562KZF	5600	60	1V/0.252MHz	0.48	18.00	45
RCB0710682KZF	6800	60	1V/0.252MHz	0.44	24.00	40
RCB0710822KZF	8200	60	1V/0.252MHz	0.40	30.00	36
RCB0710103KZF	10000	60	1V/0.0796MHz	0.36	39.00	34
RCB0710123KZF	12000	60	1V/0.0796MHz	0.32	46.00	32
RCB0710153KZF	15000	60	1V/0.0796MHz	0.30	54.00	30
RCB0710183KZF	18000	60	1V/0.0796MHz	0.28	76.00	27
RCB0710223KZF	22000	60	1V/0.0796MHz	0.24	92.00	25
RCB0710273KZF	27000	60	1V/0.0796MHz	0.20	102.00	22
RCB0710333KZF	33000	60	1V/0.0796MHz	0.16	140.00	20
RCB0710393KZF	39000	60	1V/0.0796MHz	0.13	150.00	18
RCB0710473KZF	47000	60	1V/0.0796MHz	0.10	162.00	16

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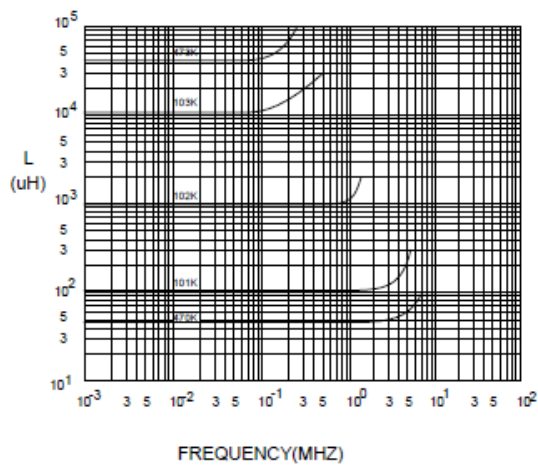


7. Characteristics Curves

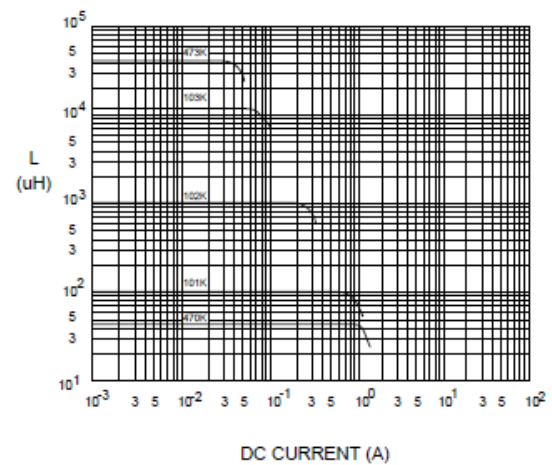
@ TEMP. RISE VS. DC SUPERPOSITION RESPONSE CURVE



@ INDUCTANCE VS. FREQUENCY RESPONSE CURVE



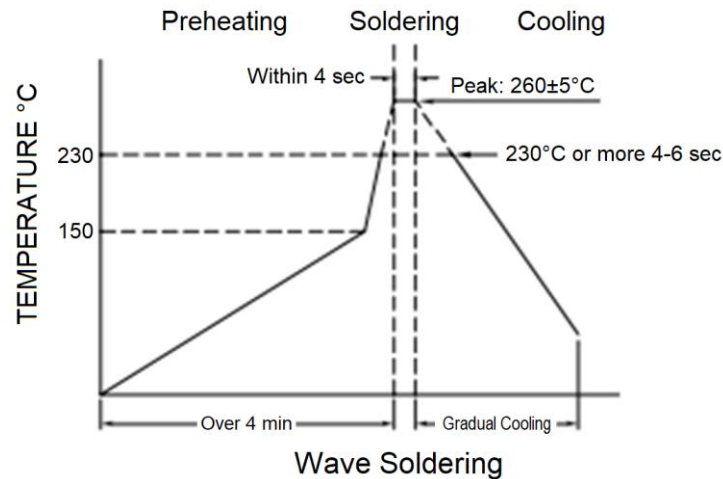
@ INDUCTANCE VS. DC SUPERPOSITION RESPONSE CURVE



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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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