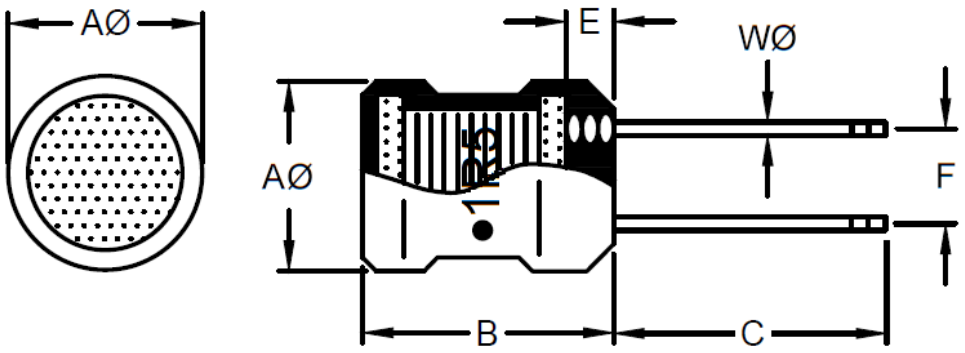
1. Part No. Expression

R C B 0 8 1 0 1 R 5 M 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

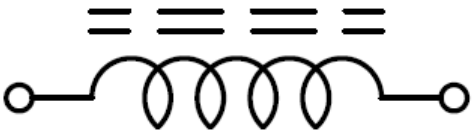
2. Configuration & Dimensions (Unit: mm)



Note: Marking: " ● " Start + Inductance Code

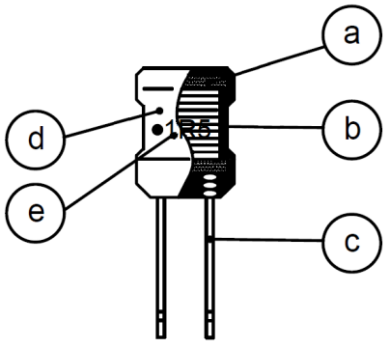
A	B	C	E	F	W
8.70±0.50	10.00±1.00	5.00±1.00	2.50 Max	5.00±0.80	0.65 Ref

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) 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 L0 to drop approximately 10%.
(e) Storage Condition (Component in its packaging)
    i) Temperature: Less than 40°C
    ii) Humidity: Less than 60% RH

6. Electrical Characteristics

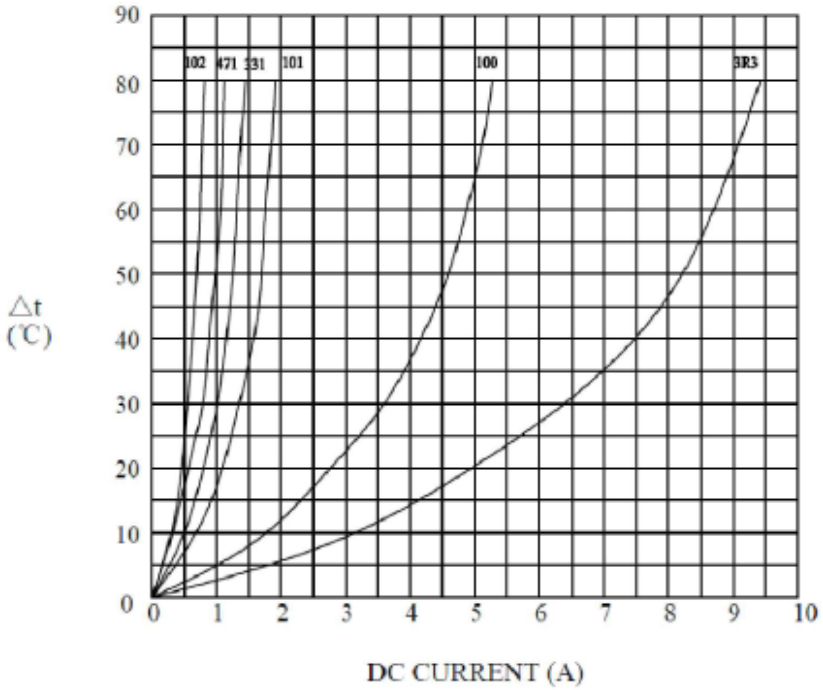
Part Number	Inductance (µH) @0A	Test Frequency	Q Ref	Test Frequency	SRF (MHz) Typ	RDC (Ω) Max	IDC (A) Max	Isat (A) Max
RCB08101R5MZF	1.5	1V/1KHz	30	1V/7.960MHz	78.0	0.008	5.40	5.40
RCB08102R2MZF	2.2	1V/1KHz	30	1V/7.960MHz	63.0	0.010	4.50	4.50
RCB08103R3MZF	3.3	1V/1KHz	30	1V/7.960MHz	50.0	0.018	3.60	3.60
RCB08104R7MZF	4.7	1V/1KHz	30	1V/7.960MHz	41.0	0.022	3.10	3.10
RCB08106R8MZF	6.8	1V/1KHz	30	1V/7.960MHz	33.0	0.028	2.50	2.50
RCB0810100KZF	10.0	1V/1KHz	60	1V/2.520MHz	27.0	0.043	2.10	2.10
RCB0810150KZF	15.0	1V/1KHz	50	1V/2.520MHz	21.0	0.056	1.70	1.70
RCB0810220KZF	22.0	1V/1KHz	50	1V/2.520MHz	17.0	0.086	1.40	1.40
RCB0810330KZF	33.0	1V/1KHz	45	1V/2.520MHz	13.0	0.140	1.10	1.10
RCB0810470KZF	47.0	1V/1KHz	40	1V/2.520MHz	11.0	0.170	0.96	0.96
RCB0810680KZF	68.0	1V/1KHz	35	1V/2.520MHz	9.0	0.280	0.79	0.79
RCB0810101KZF	100.0	1V/1KHz	55	1V/0.796MHz	7.2	0.330	0.66	0.66
RCB0810151KZF	150.0	1V/1KHz	40	1V/0.796MHz	5.7	0.560	0.53	0.53
RCB0810221KZF	220.0	1V/1KHz	30	1V/0.796MHz	4.5	0.720	0.44	0.44
RCB0810331KZF	330.0	1V/1KHz	25	1V/0.796MHz	3.6	1.100	0.36	0.36
RCB0810471KZF	470.0	1V/1KHz	25	1V/0.796MHz	2.9	1.700	0.30	0.30
RCB0810681KZF	680.0	1V/1KHz	25	1V/0.796MHz	2.3	2.300	0.25	0.25
RCB0810102KZF	1000.0	1V/1KHz	55	1V/0.252MHz	1.9	4.300	0.20	0.20

Note:

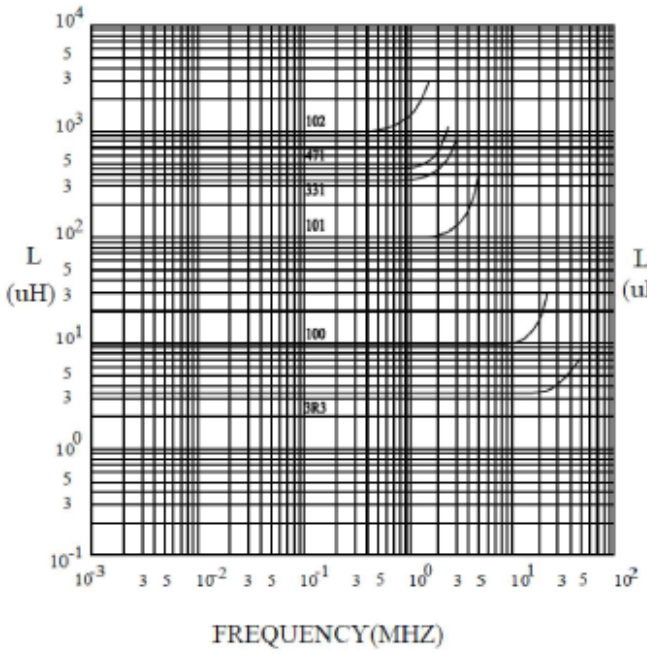
Tolerance Code: K= ±10%, M= ±20%

7. Characteristics Curves

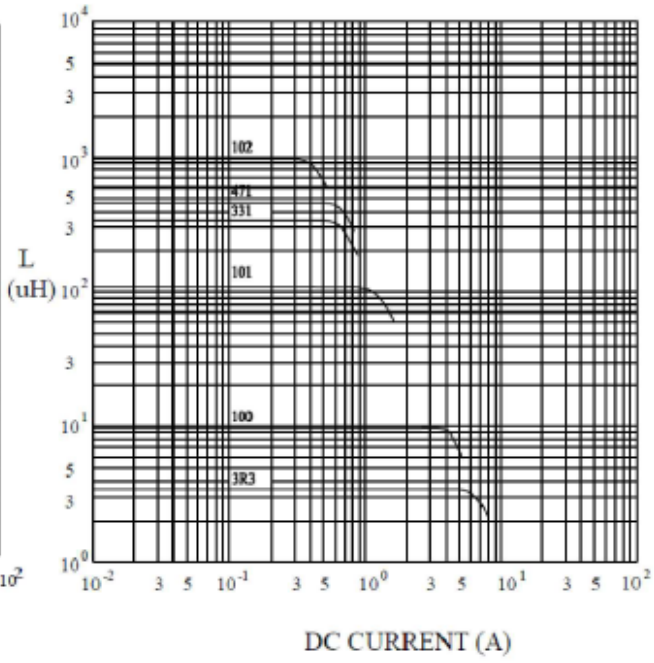
@ TEMP. RISE VS. DC SUPERPOSITION RESPONSE CURVE



@ INDUCTANCE VS. FREQUENCY RESPONSE CURVE



@ INDUCTANCE VS. DC SUPERPOSITION RESPONSE CURVE



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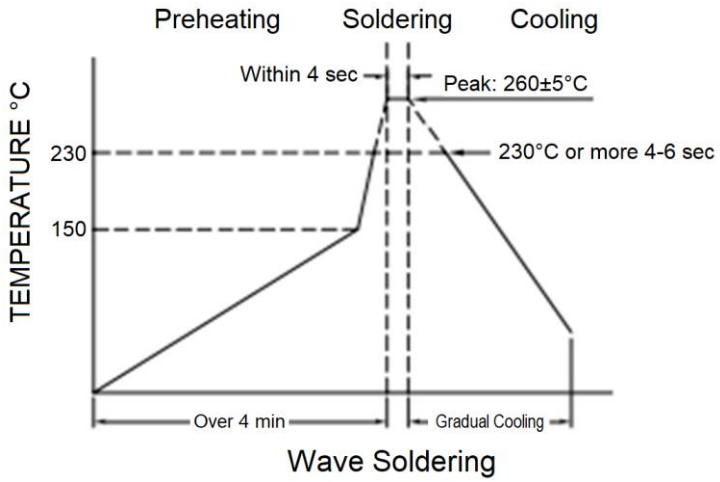
8. Soldering Specification

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	200

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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