Radial-leaded Inductor – *RCC0809 Series*

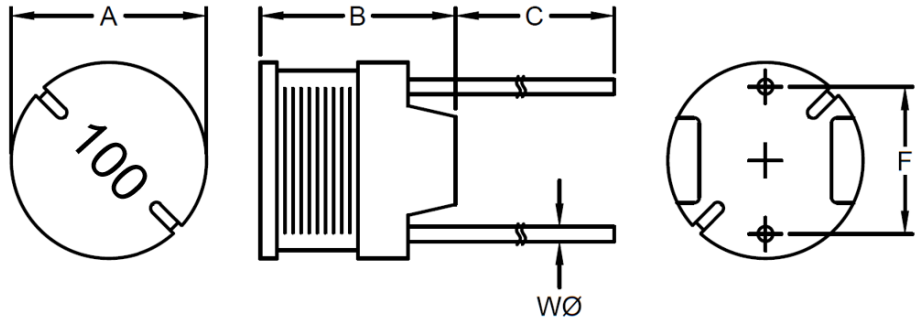
1. Part No. Expression

R C C 0 8 0 9 1 0 0 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

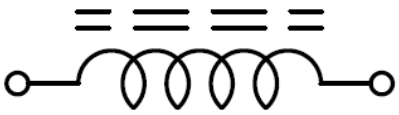
2. Configuration & Dimensions (Unit: mm)



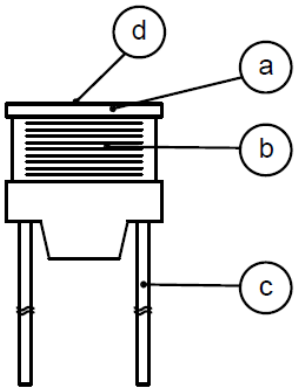
Note: Marking: Inductance Code

A	B	C	F	W
7.80±0.50	9.50 Max	15.00±3.00	5.00±0.50	0.65±0.10

3. Schematic



4. Material List



(a) Core
(b) Wire
(c) Lead
(d) 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 40°C Max.
(d) Saturation Current (Isat) will cause inductance L0 to drop 10% Max.
(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	RDC (Ω) Max	IDC (A) Max
RCC0809100MZF	10	1V/2.52MHz	0.04	2.60
RCC0809120MZF	12	1V/2.52MHz	0.04	2.60
RCC0809150KZF	15	1V/2.52MHz	0.05	2.10
RCC0809180KZF	18	1V/2.52MHz	0.05	2.00
RCC0809220KZF	22	1V/2.52MHz	0.06	1.70
RCC0809270KZF	27	1V/2.52MHz	0.06	1.60
RCC0809330KZF	33	1V/2.52MHz	0.07	1.40
RCC0809390KZF	39	1V/2.52MHz	0.08	1.40
RCC0809470KZF	47	1V/2.52MHz	0.10	1.30
RCC0809560KZF	56	1V/2.52MHz	0.11	1.20
RCC0809680KZF	68	1V/2.52MHz	0.14	1.10
RCC0809820KZF	82	1V/2.52MHz	0.16	1.00
RCC0809101KZF	100	1V/1KHz	0.19	0.90
RCC0809121KZF	120	1V/1KHz	0.22	0.82
RCC0809151KZF	150	1V/1KHz	0.27	0.74
RCC0809181KZF	180	1V/1KHz	0.31	0.71
RCC0809221KZF	220	1V/1KHz	0.38	0.64
RCC0809271KZF	270	1V/1KHz	0.53	0.57
RCC0809331KZF	330	1V/1KHz	0.61	0.51
RCC0809391KZF	390	1V/1KHz	0.69	0.48
RCC0809471KZF	470	1V/1KHz	0.89	0.43
RCC0809561KZF	560	1V/1KHz	1.01	0.40
RCC0809681KZF	680	1V/1KHz	1.18	0.35
RCC0809821KZF	820	1V/1KHz	1.57	0.32
RCC0809102KZF	1000	1V/1KHz	1.84	0.30

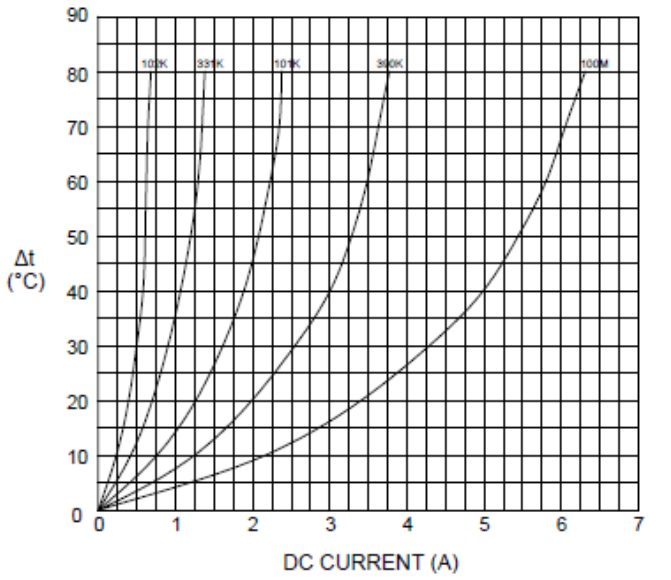
Note:

Tolerance code: K=±10%, M=±20%

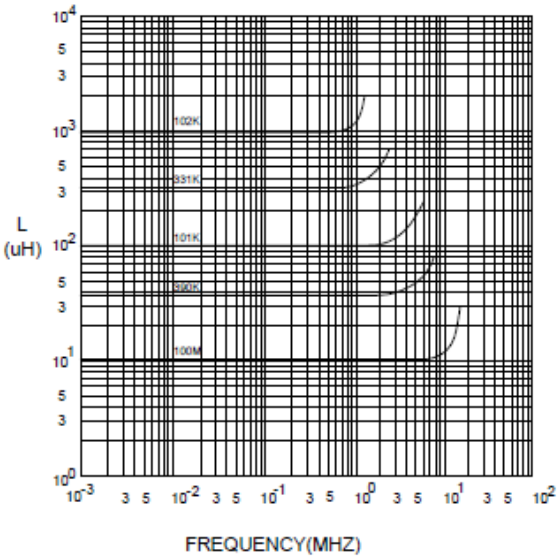
NOTE: Specifications subject to change without notice. Please check our website for latest information.

7. Characteristics Curves

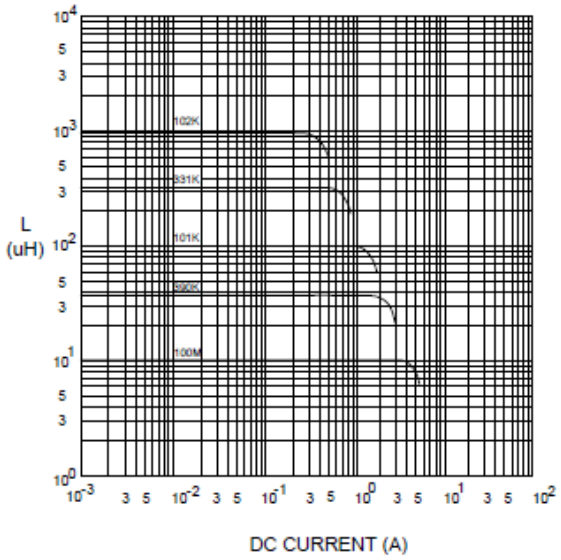
@ TEMP. RISE VS. DC SUPERPOSITION RESPONSE CURVE



@ INDUCTANCE VS. FREQUENCY RESPONSE CURVE



@ INDUCTANCE VS. DC SUPERPOSITION RESPONSE CURVE



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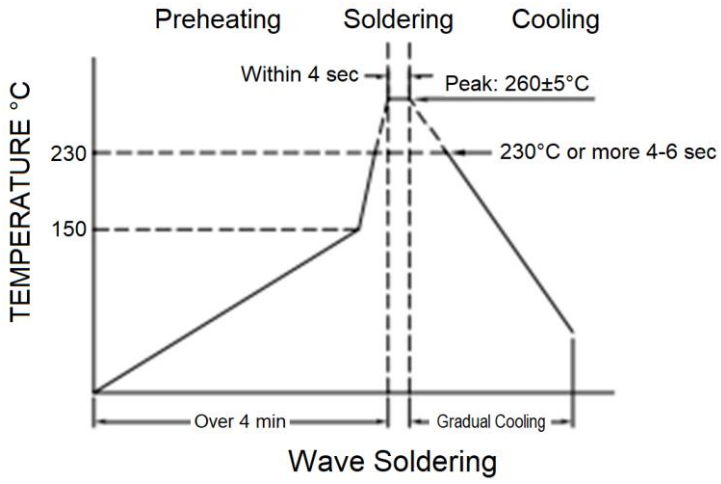
8. Soldering Specification

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	100

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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