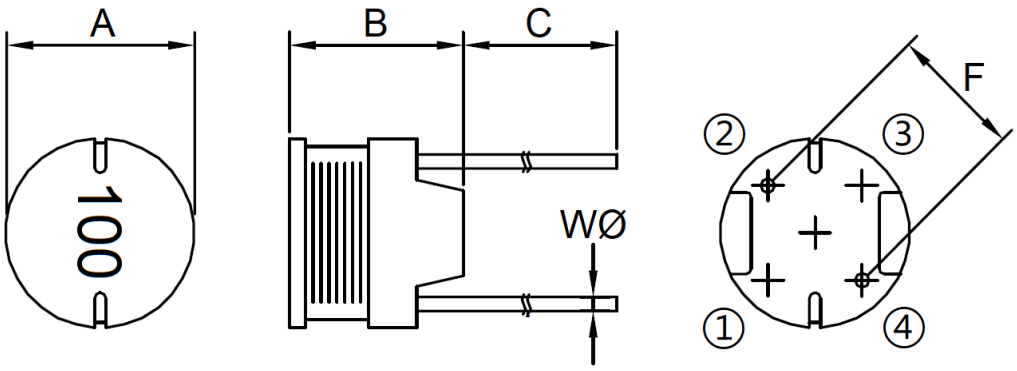
1. Part No. Expression

R C C 1 0 0 6 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

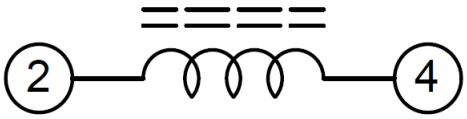
2. Configuration & Dimensions (Unit: mm)



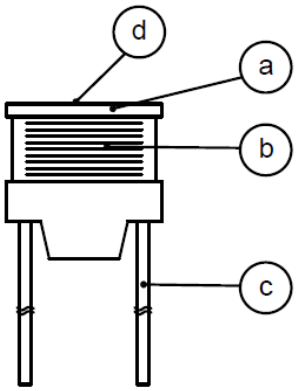
Note: Marking: Inductance Code

A	B	C	F	W
10.00±0.50	6.00±0.50	15.00±3.00	6.40±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 + 85°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

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

6. Electrical Characteristics

Part Number	Inductance (μH) @0A	Test Frequency	RDC (Ω) Max	IDC (A) Max
RCC1006100MZF	10	1V/2.52MHz	0.040	3.60
RCC1006120MZF	12	1V/2.52MHz	0.044	3.30
RCC1006150MZF	15	1V/2.52MHz	0.058	2.90
RCC1006180MZF	18	1V/2.52MHz	0.064	2.70
RCC1006220MZF	22	1V/2.52MHz	0.088	2.40
RCC1006270MZF	27	1V/2.52MHz	0.100	2.20
RCC1006330KZF	33	1V/2.52MHz	0.110	2.00
RCC1006390KZF	39	1V/2.52MHz	0.140	1.80
RCC1006470KZF	47	1V/2.52MHz	0.160	1.70
RCC1006560KZF	56	1V/2.52MHz	0.190	1.50
RCC1006680KZF	68	1V/2.52MHz	0.220	1.40
RCC1006820KZF	82	1V/2.52MHz	0.290	1.30
RCC1006101KZF	100	1V/1KHz	0.320	1.30
RCC1006121KZF	120	1V/1KHz	0.380	1.20
RCC1006151KZF	150	1V/1KHz	0.500	1.00
RCC1006181KZF	180	1V/1KHz	0.560	0.84
RCC1006221KZF	220	1V/1KHz	0.780	0.76
RCC1006271KZF	270	1V/1KHz	0.920	0.69
RCC1006331KZF	330	1V/1KHz	1.100	0.62
RCC1006391KZF	390	1V/1KHz	1.300	0.57
RCC1006471KZF	470	1V/1KHz	1.500	0.52
RCC1006561KZF	560	1V/1KHz	1.900	0.48
RCC1006681KZF	680	1V/1KHz	2.200	0.43
RCC1006821KZF	820	1V/1KHz	2.600	0.40
RCC1006102KZF	1000	1V/1KHz	3.200	0.36

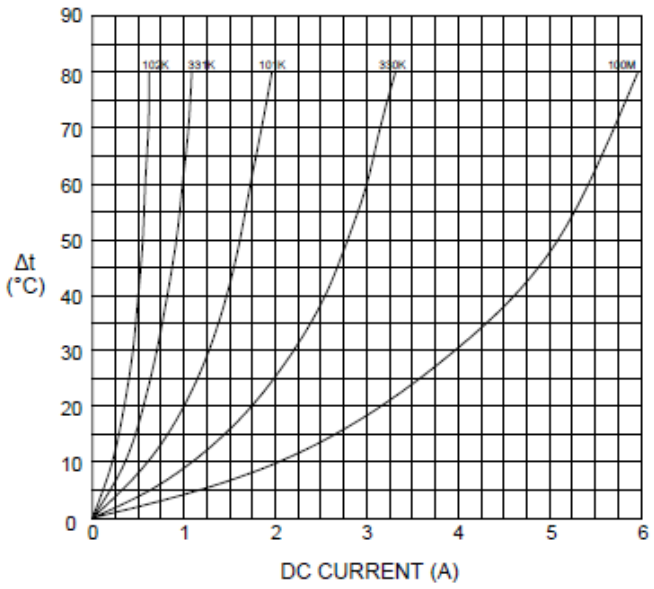
Note:

Tolerance code: K=±10%, M=±20%

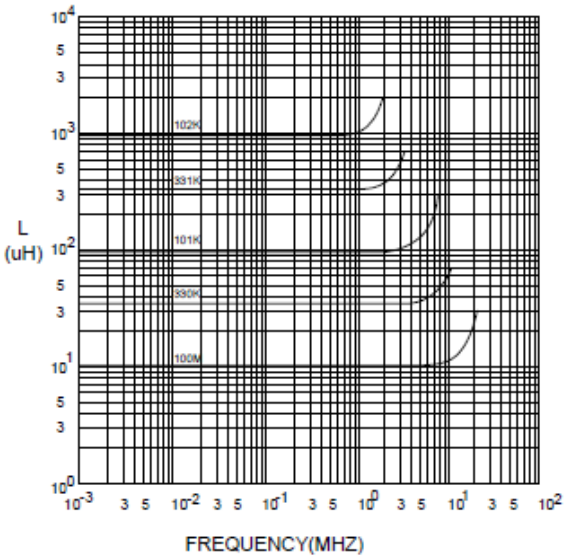
NOTE: Specifications subject to change without notice. Please check our website for latest information.

7. Characteristics Curves

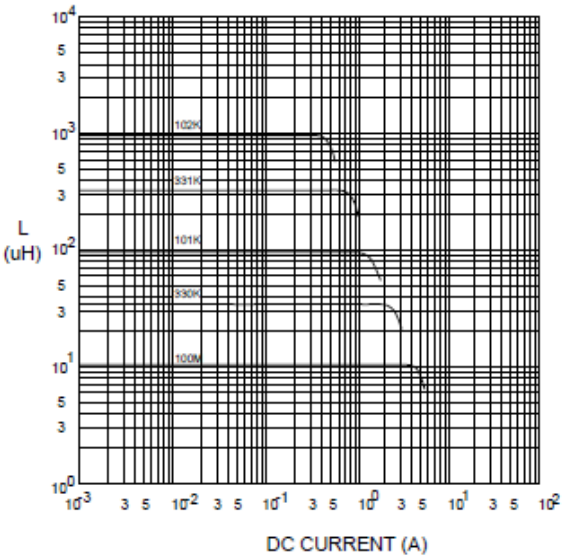
@ TEMP. RISE VS. DC SUPERPOSITION RESPONSE CURVE



@ INDUCTANCE VS. FREQUENCY RESPONSE CURVE



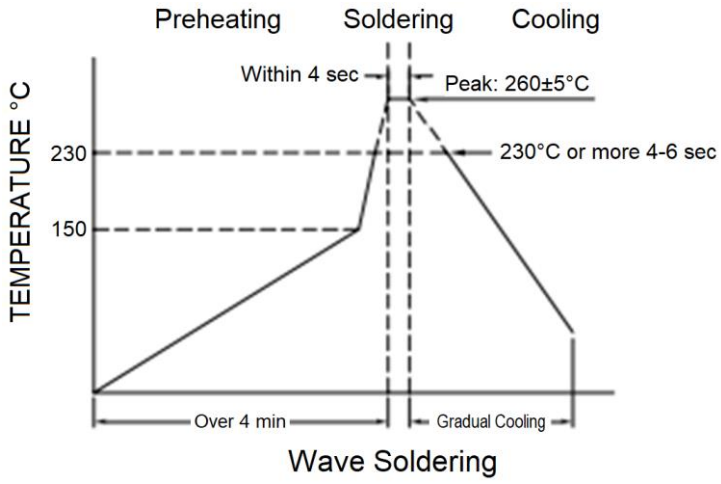
@ INDUCTANCE VS. DC SUPERPOSITION RESPONSE CURVE



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

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	300

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.

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