

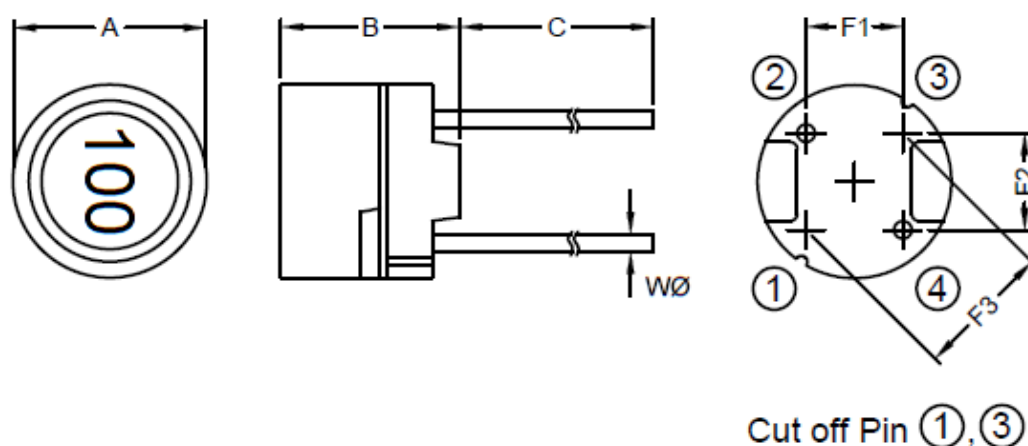
1. Part No. Expression

RCS1008100MZ 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 |

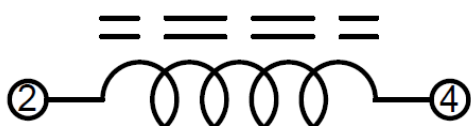
2. Configuration & Dimensions (Unit: mm)



Note: Marking: Inductance Code

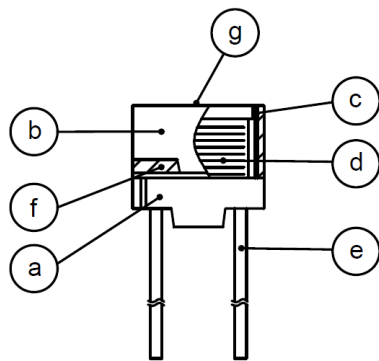
A	B	C	F1	F2	F3	W
10.0±0.5	8.0±0.5	15.0±3.0	4.0±0.5	5.0±0.5	6.4±0.5	0.8±0.1

3. Schematic



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

4. Material List



- (a) DR Core
- (b) RI Core
- (c) Sleeve
- (d) Wire
- (e) Lead
- (f) Adhesive
- (g) 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 (I_{rms}) will cause the coil temperature rise ΔT of 40°C Max.
- (d) Saturation Current (I_{sat}) 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

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6. Electrical Characteristics

Part Number	Inductance (μ H) @0A	Test Frequency	RDC (Ω) Max	IDC (A) Max
RCS1008100MZF	10	1V/2.52MHz	0.05	2.80
RCS1008120MZF	12	1V/2.52MHz	0.06	2.50
RCS1008150MZF	15	1V/2.52MHz	0.07	2.30
RCS1008180MZF	18	1V/2.52MHz	0.08	2.10
RCS1008220MZF	22	1V/2.52MHz	0.09	2.00
RCS1008270MZF	27	1V/2.52MHz	0.10	1.76
RCS1008330MZF	33	1V/2.52MHz	0.11	1.60
RCS1008390MZF	39	1V/2.52MHz	0.12	1.38
RCS1008470MZF	47	1V/2.52MHz	0.14	1.28
RCS1008560KZF	56	1V/2.52MHz	0.15	1.20
RCS1008680KZF	68	1V/2.52MHz	0.16	1.00
RCS1008820KZF	82	1V/2.52MHz	0.18	0.96
RCS1008101KZF	100	1V/1KHz	0.20	0.92
RCS1008121KZF	120	1V/1KHz	0.24	0.80
RCS1008151KZF	150	1V/1KHz	0.35	0.73
RCS1008181KZF	180	1V/1KHz	0.40	0.64
RCS1008221KZF	220	1V/1KHz	0.54	0.61
RCS1008271KZF	270	1V/1KHz	0.76	0.56
RCS1008331KZF	330	1V/1KHz	0.86	0.50
RCS1008391KZF	390	1V/1KHz	0.93	0.44
RCS1008471KZF	470	1V/1KHz	1.23	0.41
RCS1008561KZF	560	1V/1KHz	1.34	0.38
RCS1008681KZF	680	1V/1KHz	1.53	0.34
RCS1008821KZF	820	1V/1KHz	2.10	0.32
RCS1008102KZF	1000	1V/1KHz	2.30	0.28

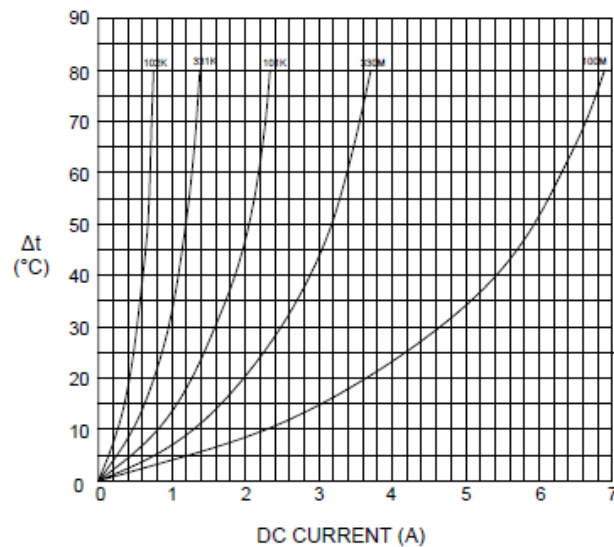
Note:

Tolerance code: K= $\pm$ 10%, M= $\pm$ 20%

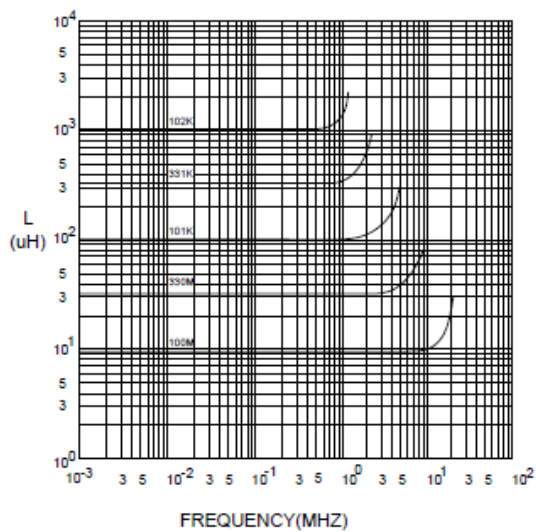
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7. Characteristics Curves

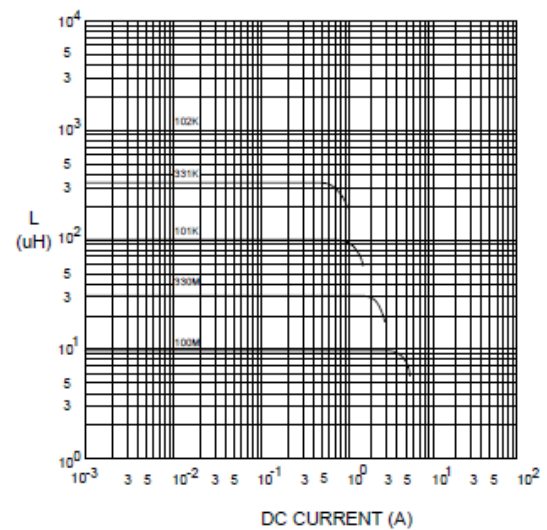
@ TEMP. RISE VS. DC SUPERPOSITION RESPONSE CURVE



@ INDUCTANCE VS. FREQUENCY RESPONSE CURVE



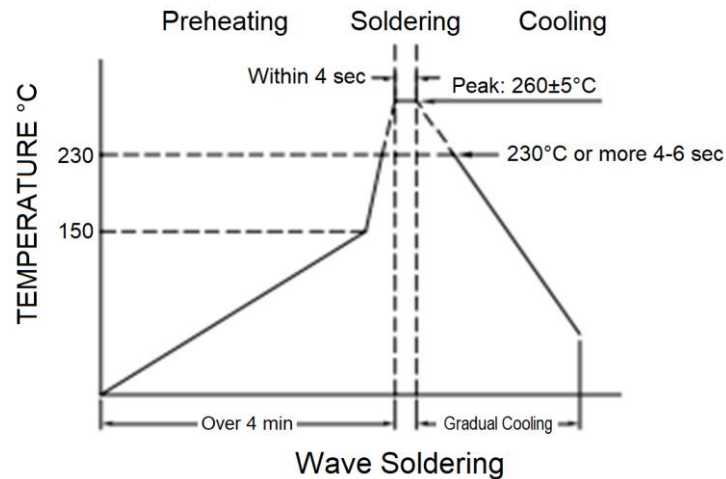
@ INDUCTANCE VS. DC SUPERPOSITION RESPONSE CURVE



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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	120

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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