

1. Part No. Expression

R C B 2 0 2 3 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)

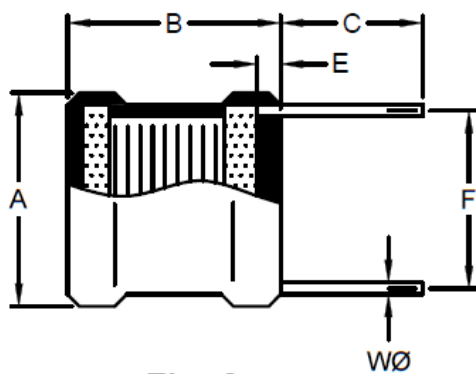


Fig. A

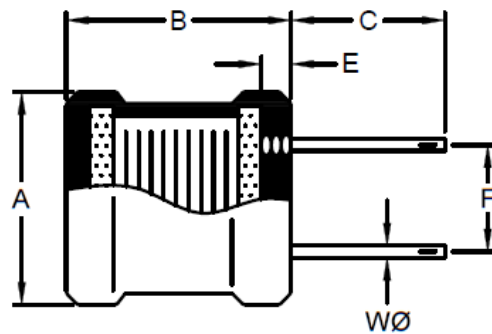
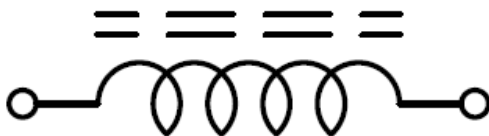


Fig. B

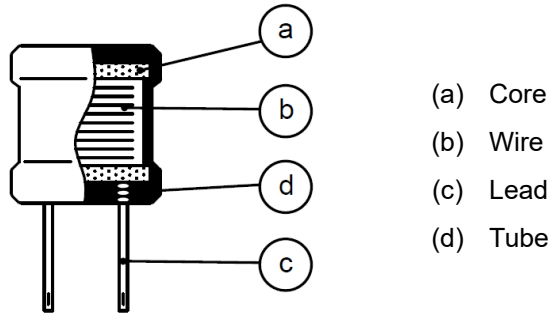
A	B	C	E	F	W
20.0 Max	23.0 Max	15.0±5.0	3.0 Max	See Electrical Characteristics	See Electrical Characteristics

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.: - 25°C to + 80°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 45°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

6. Electrical Characteristics

Part Number	Inductance (μ H) @0A	Test Frequency	RDC (Ω) Max	IDC (A) Max	Dimensions		Fig
					F (mm)	W (mm)	
RCB2023100MZ	10	1V/1KHz	0.008	10.0	15.5	1.3	A
RCB2023500KZF	50	1V/1KHz	0.032	5.0	15.5	1.0	A
RCB2023101KZF	100	1V/1KHz	0.060	4.0	15.5	0.9	A
RCB2023251KZF	250	1V/1KHz	0.140	2.5	12.5	1.0	B
RCB2023501KZF	500	1V/1KHz	0.280	1.5	12.5	1.0	B
RCB2023102KZF	1000	1V/1KHz	0.550	1.2	12.5	1.0	B
RCB2023202KZF	2000	1V/1KHz	1.200	0.8	12.5	1.0	B

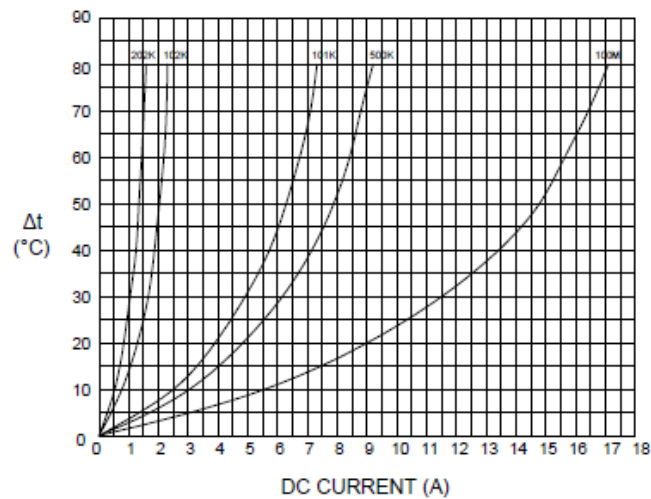
Note:

Tolerance Code: K=±10%, M=±20%

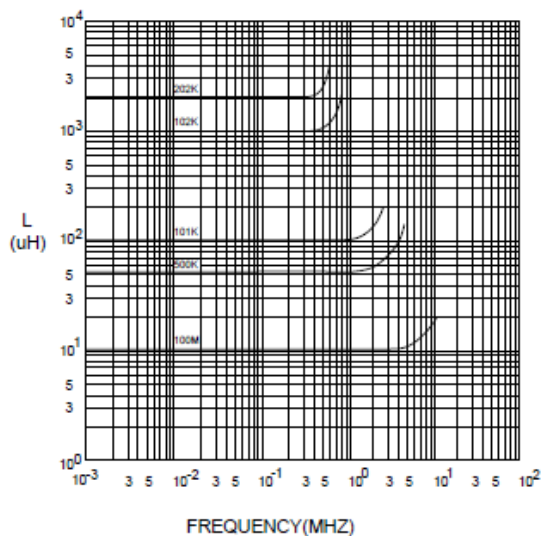
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7. Characteristics Curves

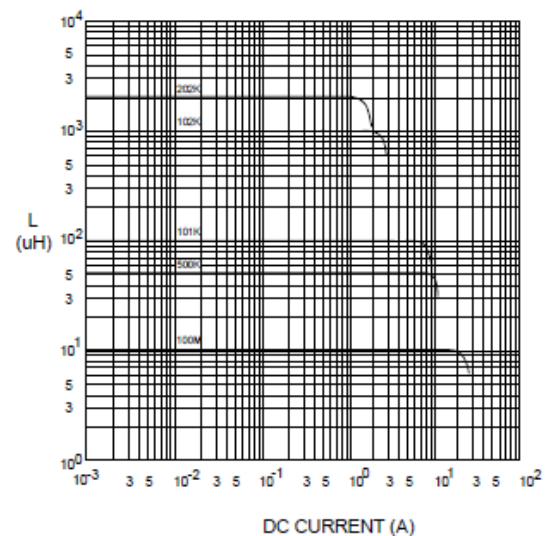
@ TEMP. RISE VS. DC SUPERPOSITION RESPONSE CURVE



@ INDUCTANCE VS. FREQUENCY RESPONSE CURVE



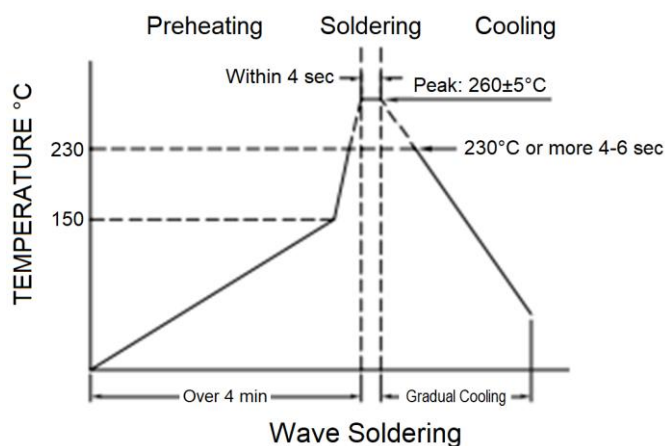
@ INDUCTANCE VS. DC SUPERPOSITION RESPONSE CURVE



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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	70

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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