

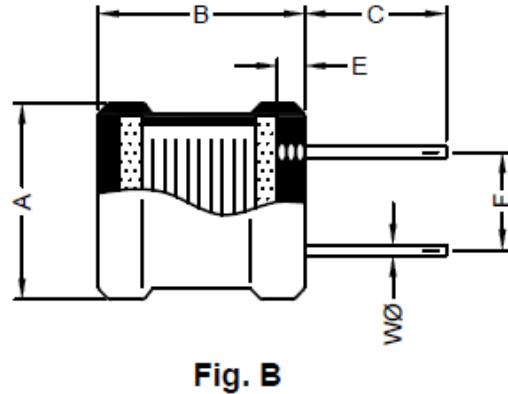
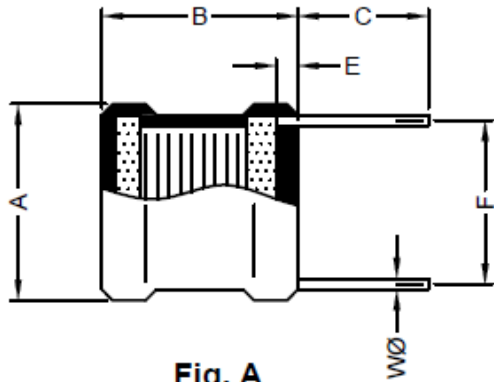
1. Part No. Expression

R C B 1 8 2 3 1 0 0 M Z F

(a) (b) (c) (d) (e) (f)

- (a) Series Code
- (b) Dimension Code
- (c) Inductance Code
- (d) Tolerance Code
- (e) Special Code
- (f) Packaging Code

2. Configuration & Dimensions (Unit: mm)



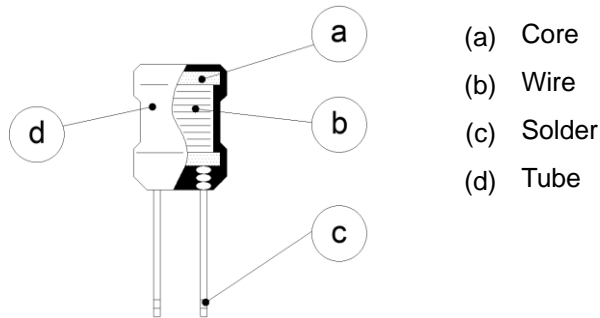
A	B	C	E	F	W
18.0 Max	23.0 Max	15.0±5.0	3.0 Max	See Electrical Characteristic	See Electrical Characteristic

3. Schematic



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

4. Material List



- (a) Core
- (b) Wire
- (c) Solder
- (d) Tube

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) All test data referenced to 25°C ambient.
- (d) Heat Rated Current (I_{rms}) will cause the coil temperature rise approximately ΔT of 45°C.
- (e) Saturation Current (I_{sat}) will cause inductance L_0 to drop approximately 10%.
- (f) Rated Current: The lower value of I_{rms} and I_{sat} .
- (g) Storage Condition (Component in its packaging)
 - i) Temperature: 40°C
 - ii) Humidity: 60% RH

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

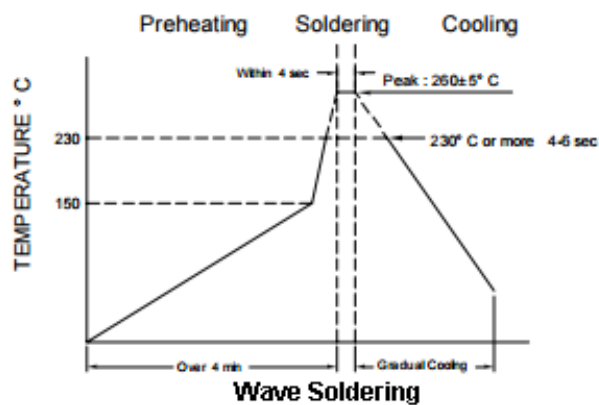
6. Electrical Characteristics

Part Number	Inductance (µH) @0A	DCR (Ω) Max	Rated Current (A) Max	Dimensions		Fig
				F (mm)	W (mm)	
RCB1823100MZ	10±20%	0.009	8.0	14.0	1.2	A
RCB1823250KZ	25±10%	0.022	6.0	14.0	1.0	A
RCB1823500KZ	50±10%	0.036	4.0	14.0	1.0	A
RCB1823101KZ	100±10%	0.090	3.0	9.0	1.0	B
RCB1823251KZ	250±10%	0.150	2.0	9.0	1.0	B
RCB1823501KZ	500±10%	0.300	1.2	9.0	1.0	B
RCB1823102KZ	1000±10%	0.600	1.0	9.0	1.0	B

Test Frequency: 1.0V/1kHz

7. 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.



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

8. Packaging Information (Unit: Pcs)

Chip/Tray	Outer Box
100	2,000

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.