

### 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 : 100 = 10uH
- (d) Tolerance code : K = ±10%, M = ±20%
- (e) X, Y, Z : Standard part
- (f) F : Lead Free

### 2. CONFIGURATION & DIMENSIONS :

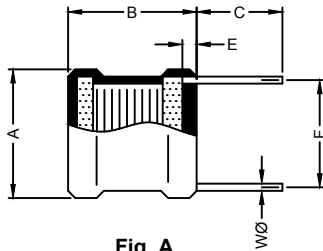


Fig. A

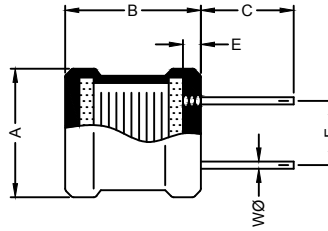
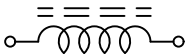


Fig. B

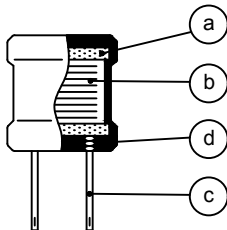
Unit:m/m

A	B	C	E
18.0 Max.	23.0 Max.	15.0±5.0	15.0±5.0

### 3. SCHEMATIC :



### 4. MATERIALS :



- (a) CORE
- (b) WIRE
- (c) LEAD
- (d) TUBE

### 5. GENERAL SPECIFICATION :

- a) L/L0A: 10% MAX. AT RATED CURRENT
- b) TEMP. RISE: 45°C MAX. AT RATED CURRENT
- c) STORAGE TEMP.: -40°C TO +125°C
- d) OPERATING TEMP.: -25°C TO +80°C



**RoHS Compliant**

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

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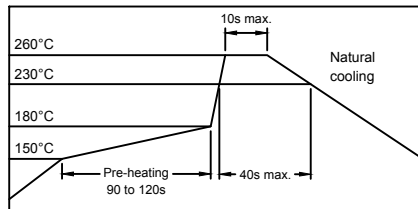


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### 6. ELECTRICAL CHARACTERISTICS :

Part No.	Inductance ( $\mu\text{H}$ )	Test Frequency (Hz)	RDC ( $\Omega$ ) Max.	IDC (A) Max.	Dimensions		Fig.
					F m/m	W m/m	
RCB1823100MZF	10 $\pm$ 20%	1V / 1K	0.009	8.0	14.0	1.2	A
RCB1823250KZF	25 $\pm$ 10%	1V / 1K	0.022	6.0	14.0	1.0	A
RCB1823500KZF	50 $\pm$ 10%	1V / 1K	0.036	4.0	14.0	1.0	A
RCB1823101KZF	100 $\pm$ 10%	1V / 1K	0.090	3.0	9.0	1.0	B
RCB1823251KZF	250 $\pm$ 10%	1V / 1K	0.150	2.0	9.0	1.0	B
RCB1823501KZF	500 $\pm$ 10%	1V / 1K	0.300	1.2	9.0	1.0	B
RCB1823102KZF	1000 $\pm$ 10%	1V / 1K	0.600	1.0	9.0	1.0	B

### RECOMMENDED SOLDERING CONDITIONS REFLOW SOLDERINGS



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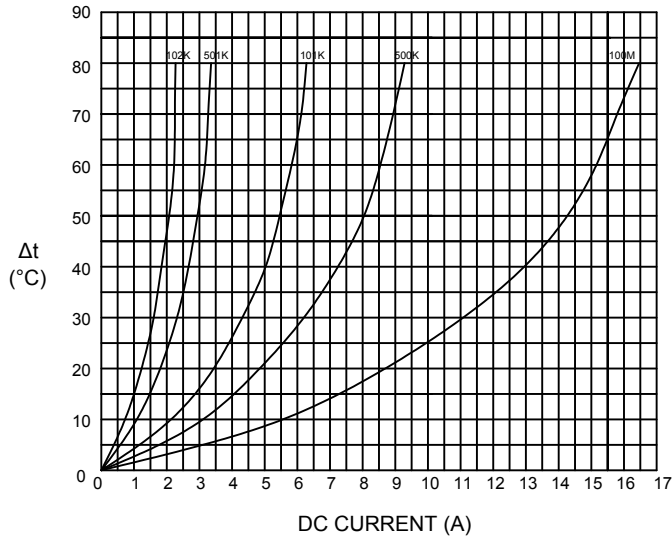
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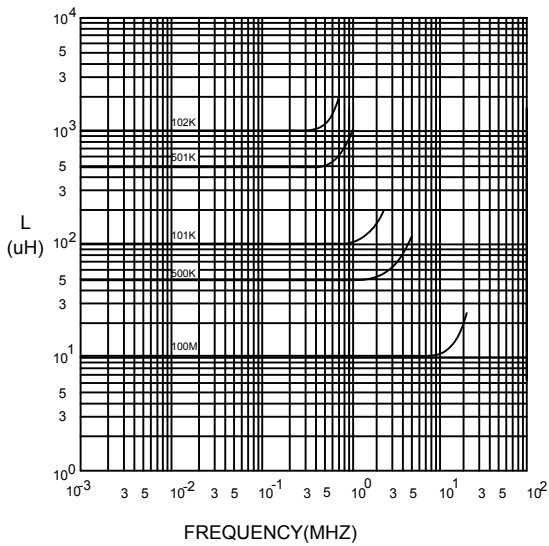
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## 7. CHARACTERISTICS CURVES :

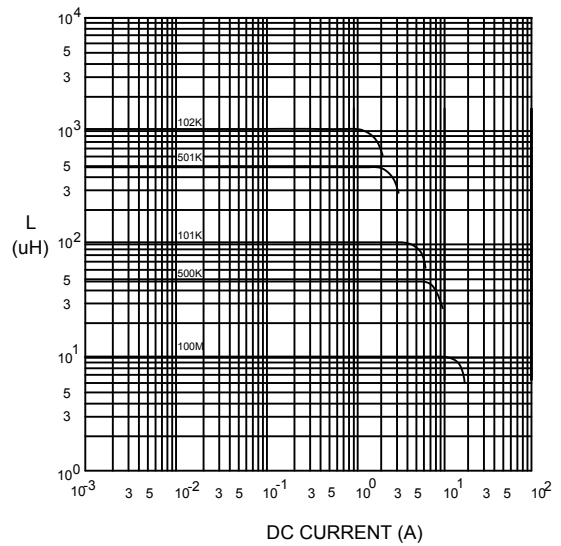
@ TEMP. RISE VS. DC SUPERPOSITION RESPONSE CURVE



@ INDUCTANCE VS. FREQUENCY RESPONSE CURVE



@ INDUCTANCE VS. DC SUPERPOSITION RESPONSE CURVE



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### 8. PACKAGING INFORMATION :

CODE	INNER PACKAGE	INNER PACKAGE Q'TY
F	TRAY	100 PCS



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