1. Part No. Expression

R C B 1 1 1 2 3 R 3 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)

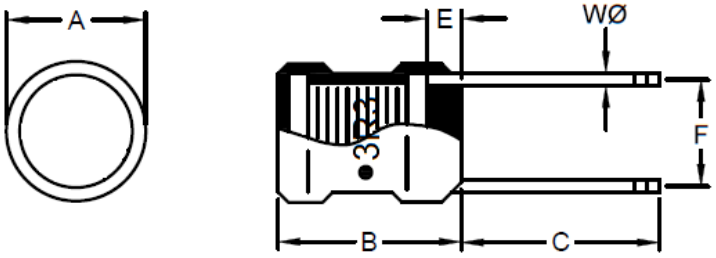


Fig : A (3.3uH - 47uH)

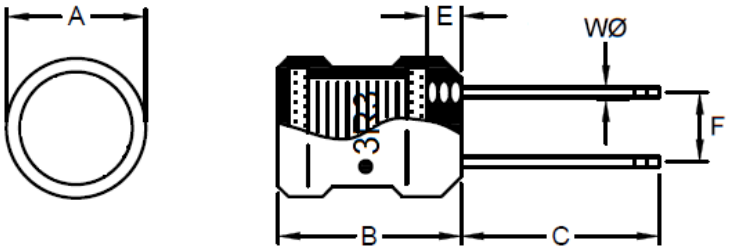


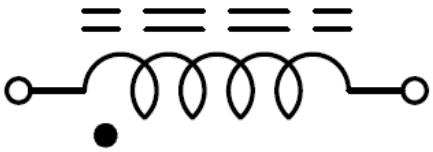
Fig : B (68uH - 15mH)

Note: Marking: " ● " Start + Inductance Code

Type	A	B	C	E	F	W
Fig A 3.3uH-47uH	11.7±0.8	12.0±1.0	15.0±5.0	2.5 Max	9.0±1.0	See Electrical Characteristics
Fig B 68uH-15mH					7.0±0.8	0.8±0.1

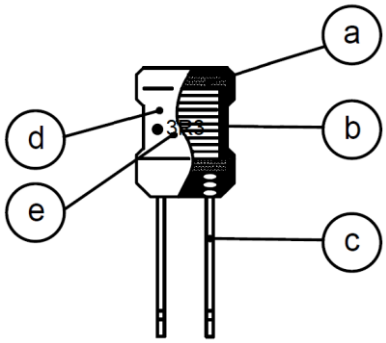
NOTE: Specifications subject to change without notice. Please check our website for latest information.

3. Schematic



" ● " : POLARITY

4. Material List



(a) Core
(b) Wire
(c) Lead
(d) Tube
(e) Ink

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) Heat Rated Current (Irms) will cause the coil temperature rise ΔT of 20°C Max.
(d) Storage Condition (Component in its packaging)
    i) Temperature: Less than 40°C
    ii) Humidity: Less than 60% RH

6. Electrical Characteristics

Part Number	Inductance (μH) @0A	Test Frequency	Q Ref	Test Frequency	SRF (MHz) Typ	RDC (Ω) Max	IDC (A) Max	Dimensions W (mm)
RCB11123R3MZF	3.3	1V/1KHz	90	1V/7.96MHz	59.00	0.008	5.600	0.8
RCB11124R7MZF	4.7	1V/1KHz	100	1V/7.96MHz	45.00	0.009	4.700	0.8
RCB11126R8MZF	6.8	1V/1KHz	80	1V/7.96MHz	34.00	0.012	3.900	0.7
RCB1112100MZF	10.0	1V/1KHz	140	1V/2.52MHz	26.00	0.015	3.200	0.7
RCB1112150MZF	15.0	1V/1KHz	120	1V/2.52MHz	19.00	0.019	2.600	0.7
RCB1112220KZF	22.0	1V/1KHz	110	1V/2.52MHz	14.00	0.026	2.200	0.7
RCB1112330KZF	33.0	1V/1KHz	100	1V/2.52MHz	10.00	0.045	1.800	0.6
RCB1112470KZF	47.0	1V/1KHz	90	1V/2.52MHz	8.30	0.056	1.500	0.6
RCB1112680KZF	68.0	1V/1KHz	80	1V/2.52MHz	6.70	0.092	1.200	0.8
RCB1112101KZF	100.0	1V/1KHz	70	1V/796KHz	5.40	0.120	1.000	0.8
RCB1112151KZF	150.0	1V/1KHz	70	1V/796KHz	4.30	0.200	0.820	0.8
RCB1112221KZF	220.0	1V/1KHz	40	1V/796KHz	3.40	0.250	0.680	0.8
RCB1112331KZF	330.0	1V/1KHz	40	1V/796KHz	2.70	0.420	0.550	0.8
RCB1112471KZF	470.0	1V/1KHz	30	1V/796KHz	2.30	0.510	0.460	0.8
RCB1112681KZF	680.0	1V/1KHz	30	1V/796KHz	1.90	0.790	0.380	0.8
RCB1112102KZF	1000.0	1V/1KHz	40	1V/252KHz	1.60	1.300	0.310	0.8
RCB1112152KZF	1500.0	1V/1KHz	30	1V/252KHz	1.30	1.700	0.250	0.8
RCB1112222KZF	2200.0	1V/1KHz	60	1V/252KHz	1.10	2.900	0.210	0.8
RCB1112332KZF	3300.0	1V/1KHz	50	1V/252KHz	0.90	3.700	0.170	0.8

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

Part Number	Inductance (μH) @0A	Test Frequency	Q Ref	Test Frequency	SRF (MHz) Typ	RDC (Ω) Max	IDC (A) Max	Dimensions W (mm)
RCB1112472KZF	4700.0	1V/1KHz	50	1V/252KHz	0.76	5.600	0.140	0.8
RCB1112682KZF	6800.0	1V/1KHz	60	1V/252KHz	0.65	9.400	0.120	0.8
RCB1112103KZF	10000.0	1V/1KHz	80	1V/79.6KHz	0.53	12.000	0.100	0.8
RCB1112153KZF	15000.0	1V/1KHz	70	1V/79.6KHz	0.41	15.000	0.082	0.8

Note:

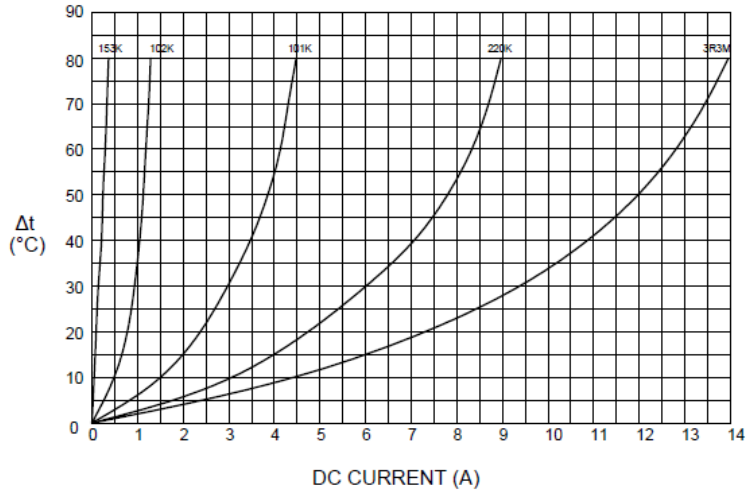
Tolerance Code: K=±10%, M=±20%

Lead: ø0.6~ø0.8mm, Soldering Copper Wire (3.3uH – 47uH)

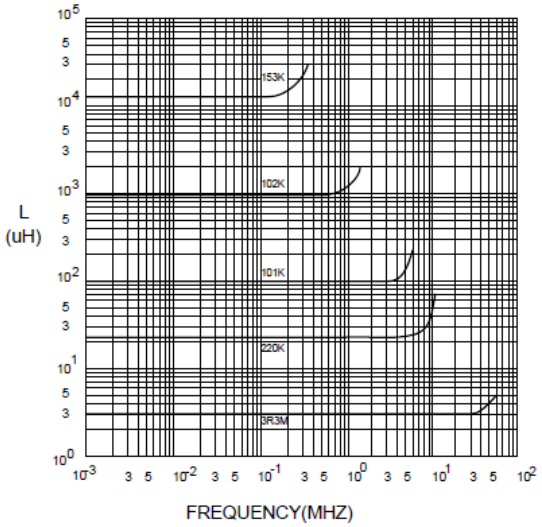
Lead: ø0.8mm, Tinned Copper Wire (68uH – 15mH)

7. Characteristics Curves

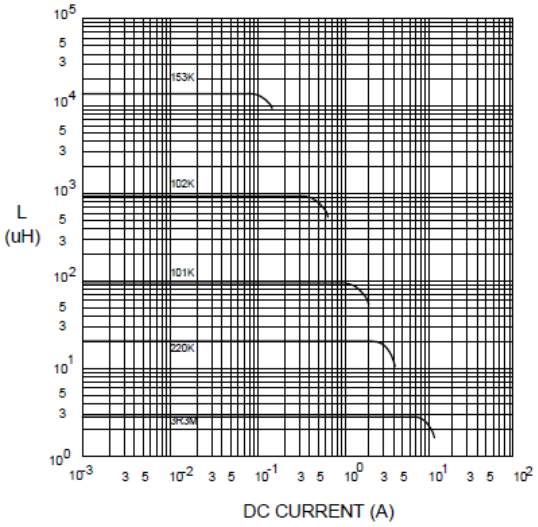
@ TEMP. RISE VS. DC SUPERPOSITION RESPONSE CURVE



@ INDUCTANCE VS. FREQUENCY RESPONSE CURVE



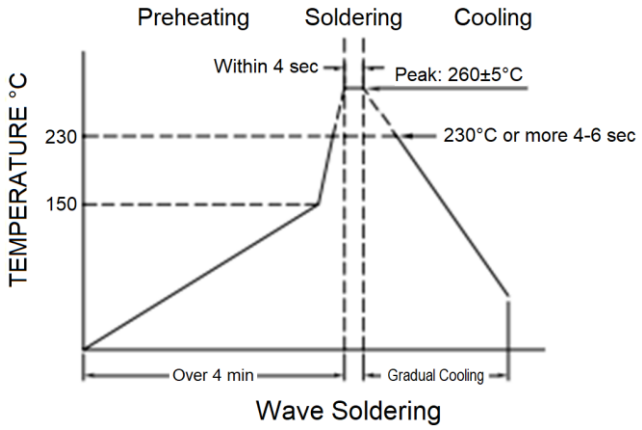
@ INDUCTANCE VS. DC SUPERPOSITION RESPONSE CURVE



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	100

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.