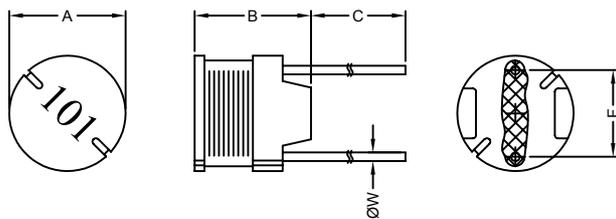


**1. PART NO. EXPRESSION :**

RCC0805100MZ F  
 (a) (b) (c) (d)(e)(f)

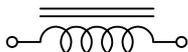
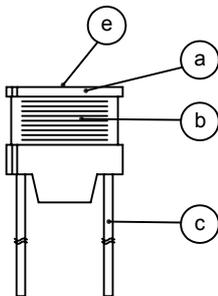
- (a) Series code  
 (b) Dimension code  
 (c) Inductance code : 100 = 10.0uH

- (d) Tolerance code : K =  $\pm 10\%$ , M =  $\pm 20\%$   
 (e) X, Y, Z : Standard part  
 (f) F : Lead Free

**2. CONFIGURATION & DIMENSIONS :**

Unit:m/m

| A         | B         | C          | F         | ØW        |
|-----------|-----------|------------|-----------|-----------|
| 7.80±0.50 | 5.50 Max. | 15.00±3.00 | 5.00±0.50 | 0.65±0.10 |

**3. SCHEMATIC :****4. MATERIALS :**

- (a) Core : DR Ferrite Core  
 (b) Wire : Enamelled Copper Wire  
 (c) Lead : Tinned Copper Wire  
 (d) Adhesive : Epoxy  
 (e) Ink : Bon Margue

**5. GENERAL SPECIFICATION :**

- a) The inductance drop at rated is 10% max.  
 b) Temp. rise : 40°C max. at rated current  
 c) Storage temp. : -40°C to +125°C  
 d) Operating temp. : -40°C to +85°C

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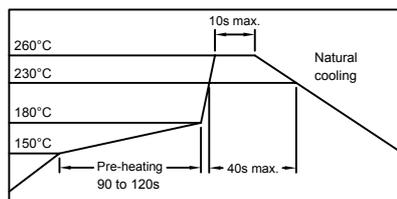
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PG. 1

**6. ELECTRICAL CHARACTERISTICS :**

| Part No.      | Inductance<br>( $\mu\text{H}$ ) | Test<br>Frequency<br>(Hz) | RDC<br>( $\Omega$ )<br>Max. | IDC<br>(A)<br>Max. |
|---------------|---------------------------------|---------------------------|-----------------------------|--------------------|
| RCC0805100MZF | 10 $\pm$ 20%                    | 2.52M                     | 0.07                        | 2.50               |
| RCC0805120MZF | 12 $\pm$ 20%                    | 2.52M                     | 0.08                        | 2.40               |
| RCC0805150MZF | 15 $\pm$ 20%                    | 2.52M                     | 0.09                        | 2.10               |
| RCC0805180MZF | 18 $\pm$ 20%                    | 2.52M                     | 0.10                        | 2.00               |
| RCC0805220KZF | 22 $\pm$ 10%                    | 2.52M                     | 0.12                        | 1.70               |
| RCC0805270KZF | 27 $\pm$ 10%                    | 2.52M                     | 0.14                        | 1.60               |
| RCC0805330KZF | 33 $\pm$ 10%                    | 2.52M                     | 0.17                        | 1.40               |
| RCC0805390KZF | 39 $\pm$ 10%                    | 2.52M                     | 0.21                        | 1.30               |
| RCC0805470KZF | 47 $\pm$ 10%                    | 2.52M                     | 0.24                        | 1.20               |
| RCC0805560KZF | 56 $\pm$ 10%                    | 2.52M                     | 0.31                        | 1.10               |
| RCC0805680KZF | 68 $\pm$ 10%                    | 2.52M                     | 0.34                        | 1.00               |
| RCC0805820KZF | 82 $\pm$ 10%                    | 2.52M                     | 0.40                        | 0.93               |
| RCC0805101KZF | 100 $\pm$ 10%                   | 1K                        | 0.52                        | 0.81               |
| RCC0805121KZF | 120 $\pm$ 10%                   | 1K                        | 0.59                        | 0.76               |
| RCC0805151KZF | 150 $\pm$ 10%                   | 1K                        | 0.71                        | 0.67               |
| RCC0805181KZF | 180 $\pm$ 10%                   | 1K                        | 0.89                        | 0.62               |
| RCC0805221KZF | 220 $\pm$ 10%                   | 1K                        | 1.04                        | 0.54               |
| RCC0805271KZF | 270 $\pm$ 10%                   | 1K                        | 1.28                        | 0.49               |
| RCC0805331KZF | 330 $\pm$ 10%                   | 1K                        | 1.47                        | 0.44               |
| RCC0805391KZF | 390 $\pm$ 10%                   | 1K                        | 1.67                        | 0.41               |
| RCC0805471KZF | 470 $\pm$ 10%                   | 1K                        | 1.95                        | 0.38               |
| RCC0805561KZF | 560 $\pm$ 10%                   | 1K                        | 2.83                        | 0.35               |
| RCC0805681KZF | 680 $\pm$ 10%                   | 1K                        | 3.25                        | 0.32               |
| RCC0805821KZF | 820 $\pm$ 10%                   | 1K                        | 3.82                        | 0.31               |
| RCC0805102KZF | 1000 $\pm$ 10%                  | 1K                        | 5.28                        | 0.25               |

RECOMMENDED SOLDERING CONDITIONS  
REFLOW SOLDERINGS



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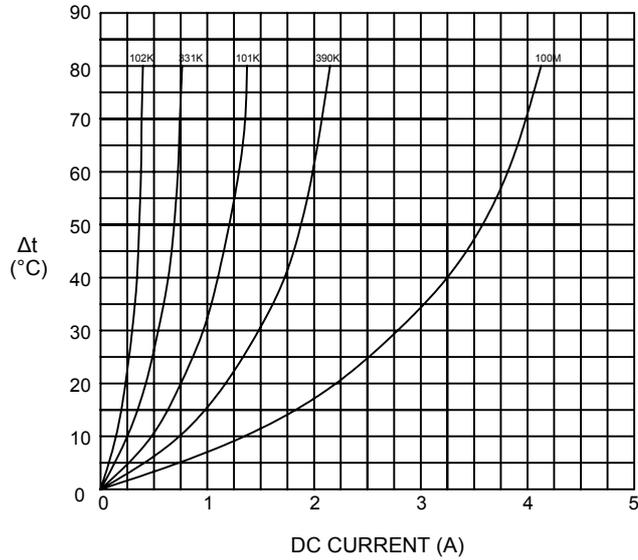


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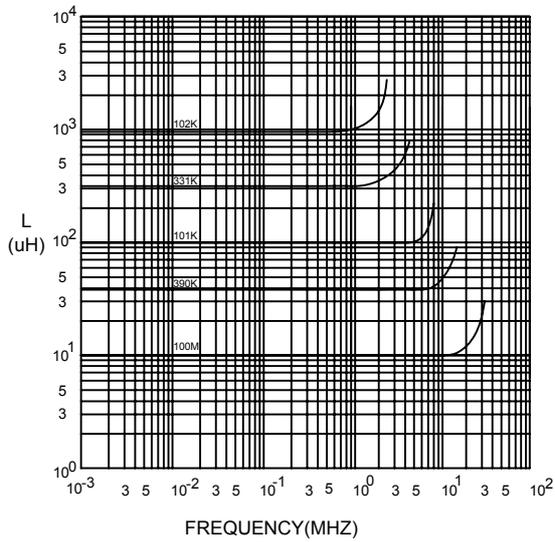
PG. 2

### 7. CHARACTERISTICS CURVES :

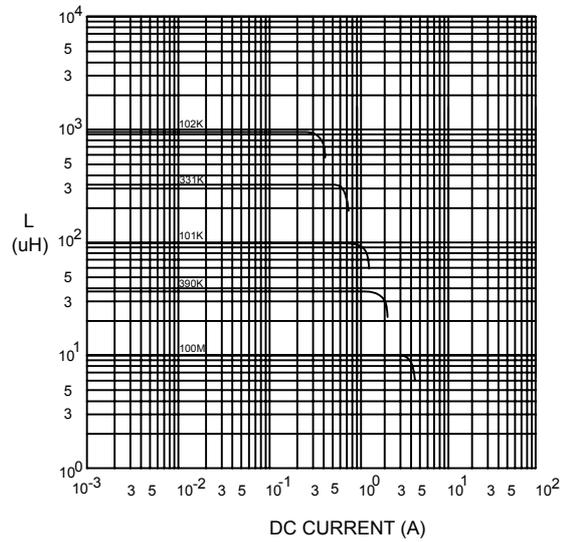
@ TEMP. RISE VS. DC SUPERPOSITION RESPONSE CURVE



@ INDUCTANCE VS. FREQUENCY RESPONSE CURVE



@ INDUCTANCE VS. DC SUPERPOSITION RESPONSE CURVE



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PG. 3

**8. PACKAGING INFORMATION :**

|               |         |
|---------------|---------|
| Size          | RCC0805 |
| Inner Package | Tray    |
| Quantity      | 160 pcs |

**9. UL CARD :**

|  |                                       |                          |                    |                |
|--|---------------------------------------|--------------------------|--------------------|----------------|
| <b>OBMW2</b>   |                                       | <b>November 30, 2000</b> |                    |                |
| <b>Magnet Wire - Component</b>   |                                       |                          |                    |                |
| <b>PACIFIC ELECTRIC WIRE &amp; CABLE (SHENZHEN) CO LTD</b>   |                                       |                          |                    | <b>E201757</b> |
| <b>607 BAOLONG INDUSTRIAL ESTATE LONGGANG, SHENZHEN</b>  |                                       |                          |                    |                |
| <b>GUANGDONG CHINA</b>   |                                       |                          |                    |                |
|  |                                       | <b>Coating Type</b>      |                    |                |
| <b>Mtl Dsg</b>   | <b>BC</b>                             | <b>TC</b>                | <b>ANSI Type</b>   | <b>TI</b>      |
| <b>UEW/U</b>   | <b>Polyurethane</b>                   | —                        | —                  | <b>130</b>     |
| <b>PEW/U</b>   | <b>Polyester</b>                      | —                        | <b>MW5-C</b>       | <b>155°C</b>   |
| <b>PEWH/U</b>  | <b>Modified Polyester</b>             | —                        | <b>MW30-C</b>      | <b>180</b>     |
| <b>PEW-NY/U</b>  | <b>Polyester</b>                      | <b>Polyamide</b>         | <b>MW24-C</b>      | <b>155</b>     |
| <b>HAI/U</b>   | <b>Polyester(Amide)(Imide)</b>        | <b>Polyamideimide</b>    | <b>MW35,73</b>     | <b>200</b>     |
| <b>UEW-NY/U</b>  | <b>Polyurethane</b>                   | <b>Polyamide</b>         | <b>MW80-C</b>      | <b>155</b>     |
|  |                                       |                          | <b>MW28-C</b>      | <b>130</b>     |
| <br><b>Marking: Company name and material designation or marked designation on package or reel, and Recognized Component Mark.</b> |                                       |                          |                    |                |
| <hr/>  |                                       |                          |                    |                |
| <b>See General Information Preceding These Recognitions</b>  |                                       |                          |                    |                |
| <b>1/3/2001</b>  | <b>Underwriters Laboratories Inc.</b> |                          | <b>Card 1 of 2</b> |                |

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PG. 4