



# THE DATASHEET OF BMMN00171770100MX2

## BMMN Series



BMMN Series is designed for low profile type with low RDC and ultra large current. Its molded magnetic shielded type is suitable for high-density mounting and ultra low buzz noise. Soldering conditions can be easily confirmed when mounting onto the board. This series also provides customers with embossed carrier type packaging for automatic mounting machine.

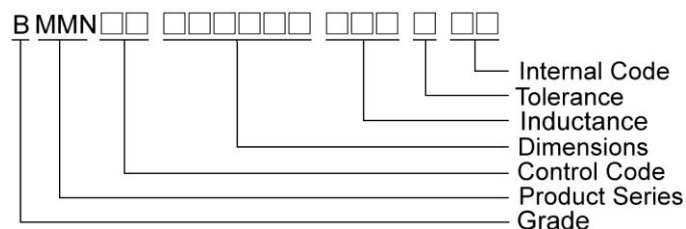
### Features

- RoHS, Halogen Free and REACH Compliance
- Low resistance and high current rating
- Magnetic core made by high performance magnetic powder

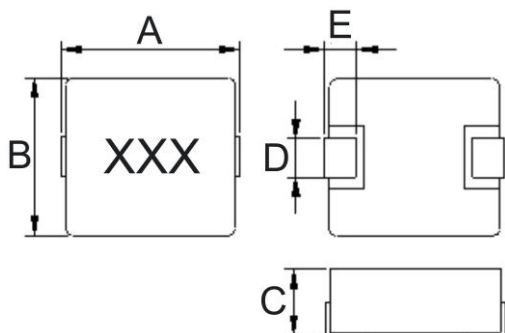
### Applications

- Laptop and desktop applications
- High current power supplies
- PMIC
- DC/DC converters

### Product Identification



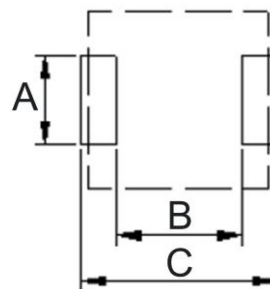
### Shape and Dimensions



Dimensions in mm

| TYPE         | A         | B         | C      | D       | E        |
|--------------|-----------|-----------|--------|---------|----------|
| BMMN00040412 | 4.45±0.25 | 4.06±0.25 | 1.2Max | 2.0±0.3 | 0.76±0.3 |
| BMMN00040420 | 4.45±0.25 | 4.06±0.25 | 2.0Max | 2.0±0.3 | 0.76±0.3 |
| BMMN00050512 | 5.49±0.25 | 5.18±0.22 | 1.2Max | 2.0±0.3 | 1.0±0.3  |
| BMMN00050515 | 5.49±0.25 | 5.18±0.22 | 1.5Max | 2.0±0.3 | 1.0±0.3  |
| BMMN00050518 | 5.49±0.25 | 5.18±0.22 | 1.8Max | 2.0±0.3 | 1.0±0.3  |
| BMMN00050530 | 5.3Max    | 4.7±0.2   | 3.0Max | 2.0±0.2 | 1.0±0.3  |
| BMMN00060615 | 6.86±0.38 | 6.47±0.25 | 1.5Max | 3.0±0.3 | 1.3±0.3  |
| BMMN00060618 | 7.4Max    | 6.6±0.2   | 1.8Max | 3.0±0.3 | 1.6±0.3  |
| BMMN00060630 | 6.95±0.35 | 6.6±0.2   | 3.0Max | 3.0±0.3 | 1.6±0.3  |

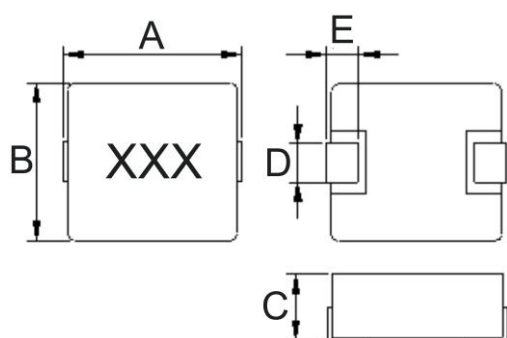
### Recommended Pattern



Dimensions in mm

| TYPE         | A    | B    | C    |
|--------------|------|------|------|
| BMME00040412 | 2.5  | 2.2  | 5.2  |
| BMME00040420 | 2.5  | 2.2  | 5.2  |
| BMMN00050512 | 2.5  | 2.2  | 5.99 |
| BMMN00050515 | 2.5  | 2.2  | 5.99 |
| BMMN00050518 | 2.5  | 2.2  | 5.99 |
| BMMN00050530 | 2.5  | 3.0  | 7.0  |
| BMMN00060615 | 3.43 | 3.71 | 7.37 |
| BMMN00060618 | 3.5  | 3.7  | 8.4  |
| BMMN00060630 | 3.5  | 3.7  | 8.4  |

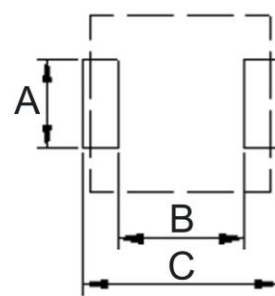
## Shape and Dimensions



Dimensions in mm

| TYPE            | A        | B        | C      | D        | E       |
|-----------------|----------|----------|--------|----------|---------|
| BMMN00101020    | 11.5Max  | 10±0.3   | 2.0Max | 3.0±0.5  | 2.2±0.3 |
| BMMN00101030    | 11.5Max  | 10±0.3   | 3.0Max | 3.0±0.5  | 2.0±0.5 |
| BMMN00101040-X1 | 11.5Max  | 10±0.3   | 4.0Max | 3.0±0.5  | 2.2±0.3 |
| BMMN00101040-X2 | 11.5Max  | 10±0.3   | 4.0Max | 3.0±0.5  | 2.0±0.5 |
| BMMN00131350    | 13.2±0.5 | 12.9Max  | 5.0Max | 3.5±0.5  | 2.3±0.3 |
| BMMN00131360    | 14.2Max  | 12.6±0.2 | 6.0Max | 3.2±0.3  | 2.3±0.3 |
| BMMN00131365    | 13.2±0.5 | 12.6±0.2 | 6.5Max | 3.2±0.3  | 2.3±0.3 |
| BMMN00171770    | 17.6±0.5 | 17.2Max  | 7.0Max | 11.8±0.3 | 2.5±0.5 |

## Recommended Pattern



Dimensions in mm

| TYPE            | A    | B    | C    |
|-----------------|------|------|------|
| BMMN00101020    | 4.1  | 5.4  | 13.6 |
| BMMN00101030    | 4.1  | 5.4  | 13.6 |
| BMMN00101040-X1 | 4.1  | 5.4  | 13.6 |
| BMMN00101040-X2 | 4.1  | 5.4  | 13.6 |
| BMMN00131350    | 5.0  | 8.0  | 14.5 |
| BMMN00131360    | 5.0  | 8.0  | 14.5 |
| BMMN00131365    | 5.0  | 8.0  | 14.5 |
| BMMN00171770    | 12.8 | 11.2 | 18.2 |

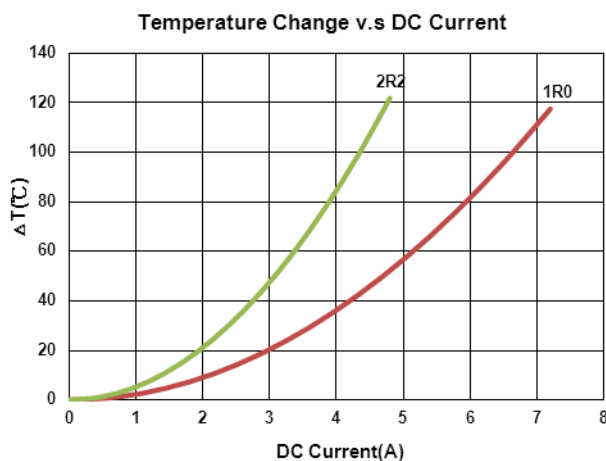
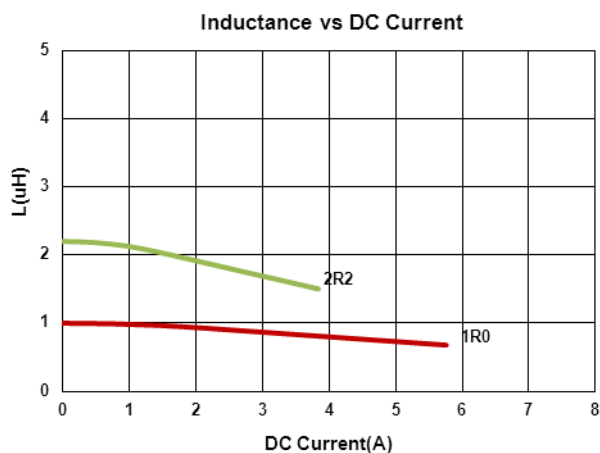
## Electrical Characteristics

| Part Number        | Inductance (uH) | Tolerance (±%) | Test Frequency (kHz) | RDC(mΩ) Max(Typ.) | Isat (A)Typ. | Irms (A)Typ. | Marking |
|--------------------|-----------------|----------------|----------------------|-------------------|--------------|--------------|---------|
| BMMN000404121R0MX2 | 1.0             | 20             | 100                  | 47(43)            | 5.2          | 4.2          | 1R0     |
| BMMN000404122R2MX2 | 2.2             | 20             | 100                  | 83.5(79.4)        | 3.5          | 2.75         | 2R2     |

**Note: When ordering, please specify tolerance code. Tolerance: M=±20%**

- Operating temperature range —55℃ ~ 125℃ (Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- I rms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment :  
 L : WK 3260B or WK 6500P, 100kHz 0.25V  
 RDC : CHEN HWA 502 or CHEN HWA 46502B  
 I rms : CHROMA 1810

**Test Instruments :** WK3260B Impedance / Material Analyzer



## Molding Power Inductors – BMMN Series

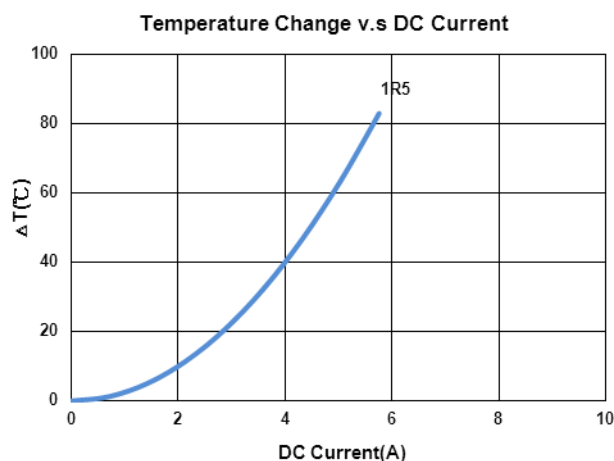
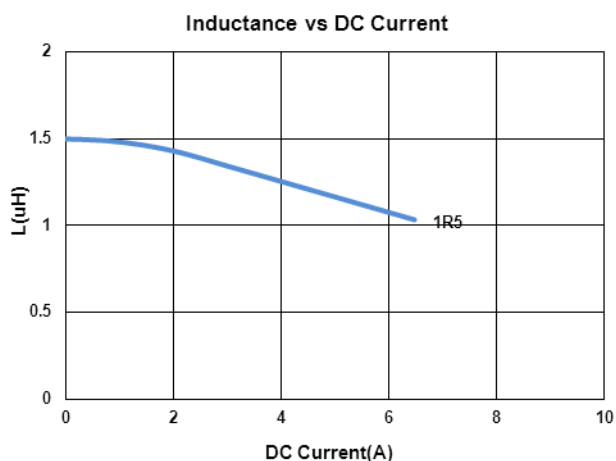
### Electrical Characteristics

| Part Number        | Inductance (uH) | Tolerance (±%) | Test Frequency (kHz) | RDC(mΩ) Max(Typ.) | Isat (A)Typ. | Irms (A)Typ. | Marking |
|--------------------|-----------------|----------------|----------------------|-------------------|--------------|--------------|---------|
| BMMN000404201R5MX2 | 1.5             | 20             | 100                  | 43(35)            | 6            | 4            | 1R5     |

**Note: When ordering, please specify tolerance code. Tolerance: M=±20%**

- Operating temperature range –55℃ ~ 125℃ (Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- I rms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment :  
 L : WK 3260B or WK 6500P, 100kHz 0.25V  
 RDC : CHEN HWA 502 or CHEN HWA 46502B  
 I rms : CHROMA 1810

**Test Instruments : WK3260B Impedance / Material Analyzer**



## Molding Power Inductors – BMMN Series

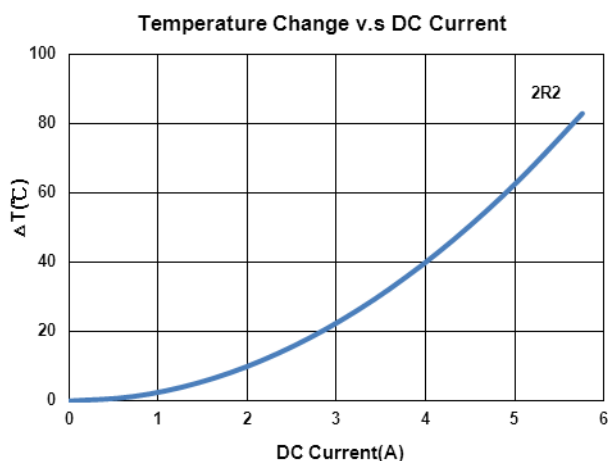
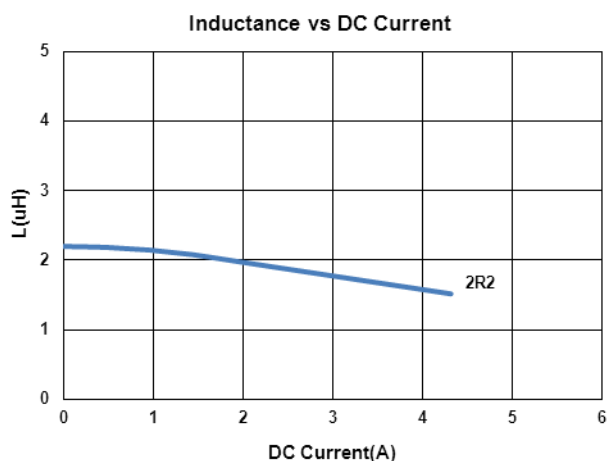
### Electrical Characteristics

| Part Number        | Inductance (uH) | Tolerance (±%) | Test Frequency (kHz) | RDC(mΩ) Max(Typ.) | Isat (A)Typ. | Irms (A)Typ.. | Marking |
|--------------------|-----------------|----------------|----------------------|-------------------|--------------|---------------|---------|
| BMMN000505122R2MX1 | 2.2             | 20             | 100                  | 76(67)            | 4            | 3.5           | 2R2     |

**Note: When ordering, please specify tolerance code. Tolerance: M=±20%**

- Operating temperature range –55℃ ~ 125℃ (Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- I rms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment :  
 L : WK 3260B or WK 6500P, 100kHz 0.25V  
 RDC : CHEN HWA 502 or CHEN HWA 46502B  
 I rms : CHROMA 1810

**Test Instruments : WK3260B Impedance / Material Analyzer**



## Molding Power Inductors – BMMN Series

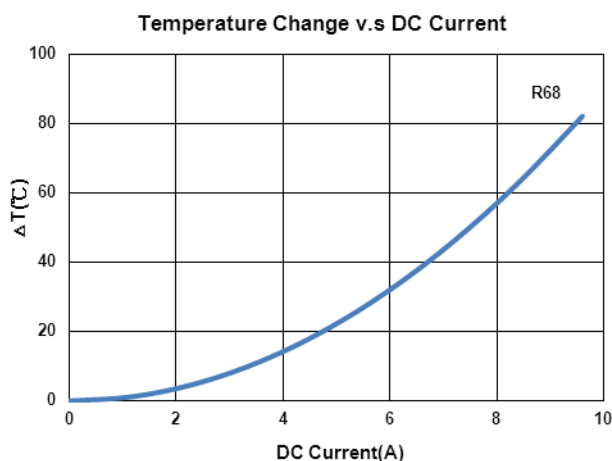
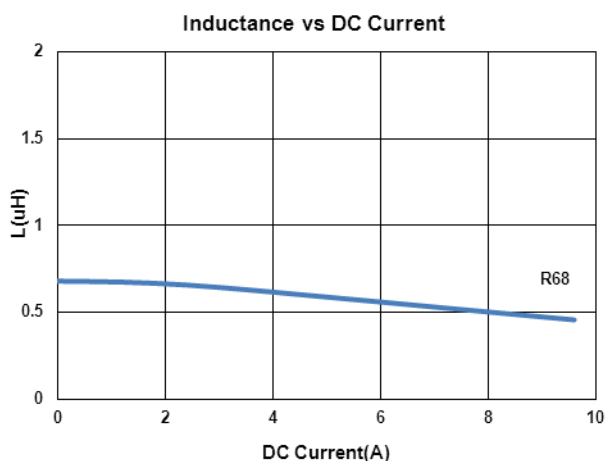
### Electrical Characteristics

| Part Number        | Inductance<br>( $\mu$ H) | Tolerance<br>( $\pm\%$ ) | Test<br>Frequency<br>(kHz) | RDC(m $\Omega$ )<br>Max(Typ.) | Isat(A)<br>Max(Typ.) | Irms(A)<br>Max(Typ.) | Marking |
|--------------------|--------------------------|--------------------------|----------------------------|-------------------------------|----------------------|----------------------|---------|
| BMMN00050512R68MX2 | 0.68                     | 20                       | 100                        | 22(19)                        | 7.4(8.5)             | 6.0(6.7)             | R68     |

**Note: When ordering, please specify tolerance code. Tolerance: M=±20%**

- Operating temperature range –55℃ ~ 125℃ (Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment :  
 L : WK 3260B or WK 6500P, 100kHz 0.25V  
 RDC : CHEN HWA 502 or CHEN HWA 46502B  
 Irms : CHROMA 1810

**Test Instruments : WK3260B Impedance / Material Analyzer**



## Molding Power Inductors – BMMN Series

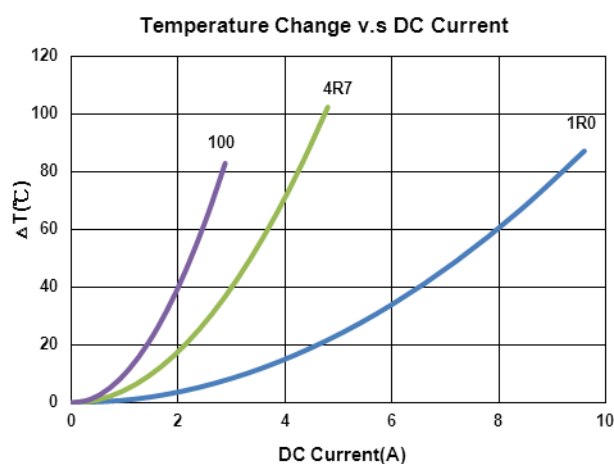
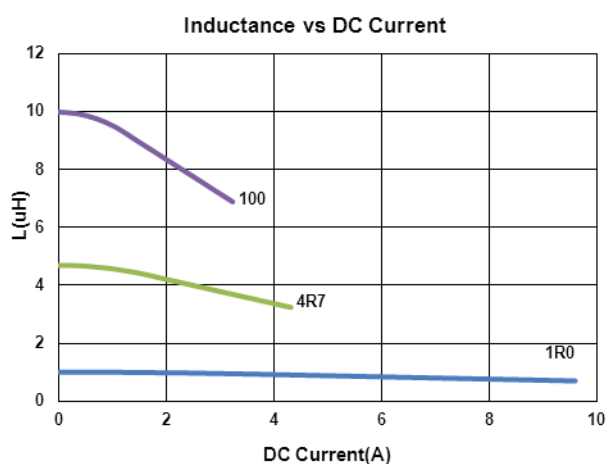
### Electrical Characteristics

| Part Number        | Inductance (uH) | Tolerance (±%) | Test Frequency (kHz) | RDC(mΩ) Max(Typ.) | Isat (A)Typ. | Irms (A)Typ.. | Marking |
|--------------------|-----------------|----------------|----------------------|-------------------|--------------|---------------|---------|
| BMMN000505151R0MX2 | 1.0             | 20             | 100                  | 23(20)            | 9            | 6.5           | 1R0     |
| BMMN000505154R7MX2 | 4.7             | 20             | 100                  | 106(95)           | 4            | 3             | 4R7     |
| BMMN00050515100MX2 | 10              | 20             | 100                  | 170(153)          | 3            | 2             | 100     |

**Note: When ordering, please specify tolerance code. Tolerance: M=±20%**

- Operating temperature range –55℃ ~ 125℃ (Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- I rms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment :  
 L : WK 3260B or WK 6500P, 100kHz 0.25V  
 RDC : CHEN HWA 502 or CHEN HWA 46502B  
 I rms : CHROMA 1810

**Test Instruments : WK3260B Impedance / Material Analyzer**



## Molding Power Inductors – BMMN Series

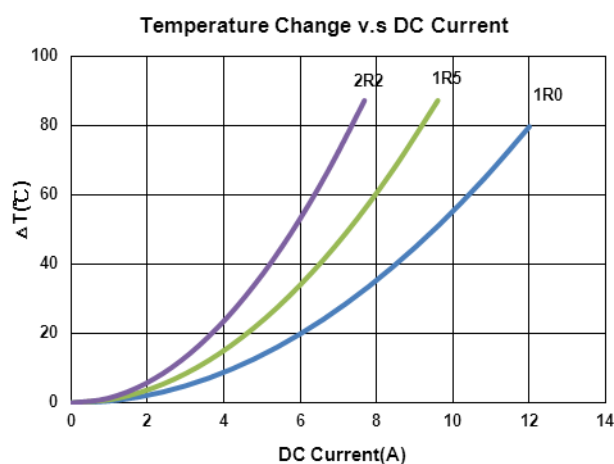
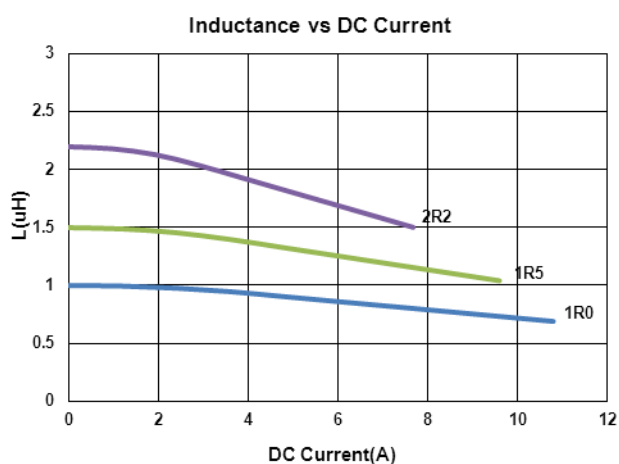
### Electrical Characteristics

| Part Number        | Inductance (uH) | Tolerance (±%) | Test Frequency (kHz) | RDC(mΩ) Max(Typ.) | Isat(A) Max(Typ.) | Irms(A) Max(Typ.) | Marking |
|--------------------|-----------------|----------------|----------------------|-------------------|-------------------|-------------------|---------|
| BMMN000505181R0MX1 | 1.0             | 20             | 100                  | 18(15)            | 8.6(10)           | 7.5(8.5)          | 1R0     |
| BMMN000505181R5MX1 | 1.5             | 20             | 100                  | 28(23)            | 7.2(9)            | 5.5(6.5)          | 1R5     |
| BMMN000505182R2MX1 | 2.2             | 20             | 100                  | 35(30)            | 6(7)              | 4.7(5.2)          | 2R2     |

**Note:** When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range –55℃ ~ 125℃ (Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- I rms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment :  
 L : WK 3260B or WK 6500P, 100kHz 0.25V  
 RDC : CHEN HWA 502 or CHEN HWA 46502B  
 I rms : CHROMA 1810

**Test Instruments :** WK3260B Impedance / Material Analyzer



## Molding Power Inductors – BMMN Series

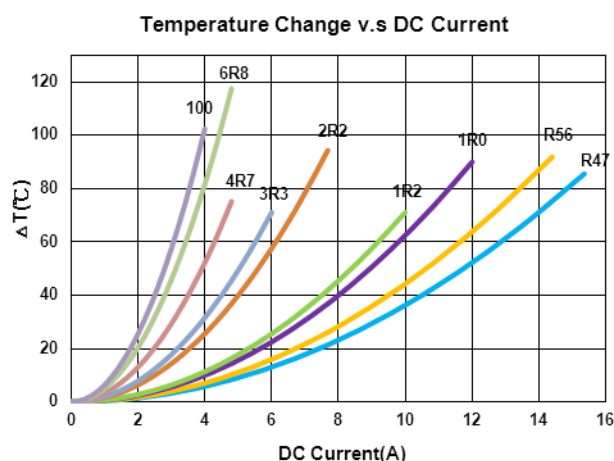
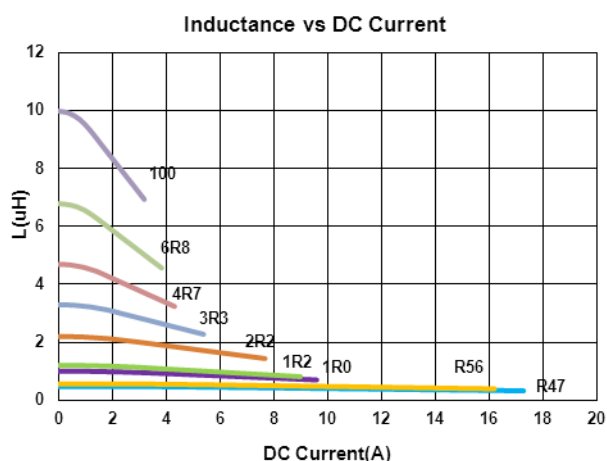
### Electrical Characteristics

| Part Number        | Inductance (uH) | Tolerance (±%) | Test Frequency (kHz) | RDC(mΩ) Max(Typ.) | Isat (A)Typ. | Irms (A)Typ. | Marking |
|--------------------|-----------------|----------------|----------------------|-------------------|--------------|--------------|---------|
| BMMN00050518R47MX2 | 0.47            | 20             | 100                  | 9(7.7)            | 15.5         | 10.5         | R47     |
| BMMN00050518R56MX2 | 0.56            | 20             | 100                  | 10(8)             | 15           | 9.5          | R56     |
| BMMN000505181R0MX2 | 1.0             | 20             | 100                  | 17(15)            | 9            | 8            | 1R0     |
| BMMN000505181R2MX2 | 1.2             | 20             | 100                  | 20(17)            | 8            | 7.5          | 1R2     |
| BMMN000505182R2MX2 | 2.2             | 20             | 100                  | 35(30)            | 6.5          | 5            | 2R2     |
| BMMN000505183R3MX2 | 3.3             | 20             | 100                  | 58(52)            | 5            | 4.5          | 3R3     |
| BMMN000505184R7MX2 | 4.7             | 20             | 100                  | 85(78)            | 4            | 3.5          | 4R7     |
| BMMN000505186R8MX2 | 6.8             | 20             | 100                  | 120(107)          | 3.4          | 2.8          | 6R8     |
| BMMN00050518100MX2 | 10              | 20             | 100                  | 155(140)          | 3            | 2.5          | 100     |

**Note: When ordering, please specify tolerance code. Tolerance: M=±20%**

- Operating temperature range – 55°C ~ 125°C (Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- I rms for a 40°C temperature rise from 25°C ambient with current
- Measure Equipment :  
 L : WK 3260B or WK 6500P, 100kHz 0.25V  
 RDC : CHEN HWA 502 or CHEN HWA 46502B  
 I rms : CHROMA 1810

**Test Instruments : WK3260B Impedance / Material Analyzer**



## Molding Power Inductors – BMMN Series

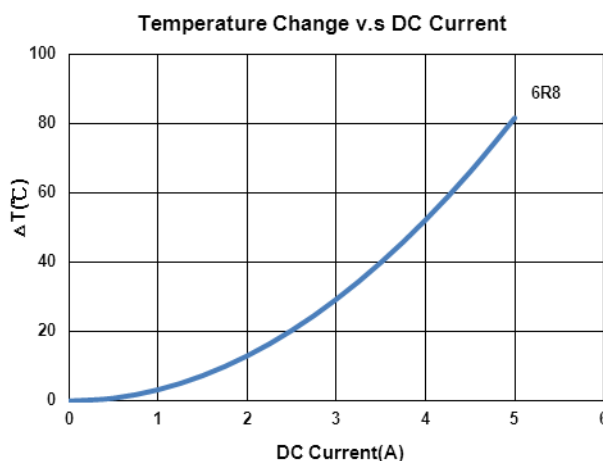
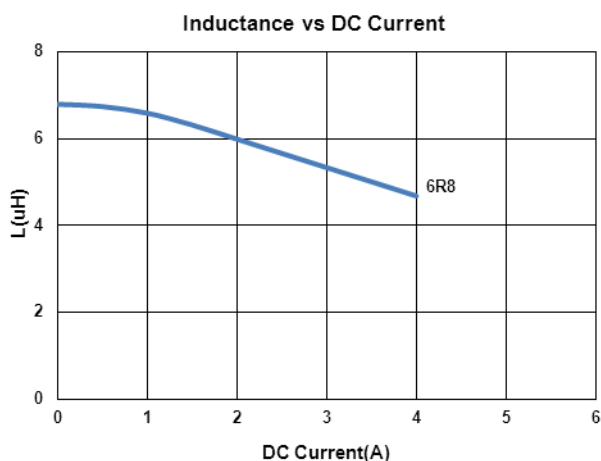
### Electrical Characteristics

| Part Number        | Inductance<br>( $\mu$ H) | Tolerance<br>( $\pm\%$ ) | Test<br>Frequency<br>(kHz) | RDC(m $\Omega$ )<br>Max(Typ.) | Isat(A)<br>Max(Typ.) | Irms(A)<br>Max(Typ.) | Marking |
|--------------------|--------------------------|--------------------------|----------------------------|-------------------------------|----------------------|----------------------|---------|
| BMMN000505306R8MX1 | 6.8                      | 20                       | 100                        | 115(100)                      | 3.2(3.7)             | 3(3.5)               | 6R8     |

**Note: When ordering, please specify tolerance code. Tolerance: M=±20%**

- Operating temperature range –55°C ~ 125°C (Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C temperature rise from 25°C ambient with current
- Measure Equipment :  
 L : WK 3260B or WK 6500P, 100kHz 0.25V  
 RDC : CHEN HWA 502 or CHEN HWA 46502B  
 Irms : CHROMA 1810

**Test Instruments : WK3260B Impedance / Material Analyzer**



## Molding Power Inductors – BMMN Series

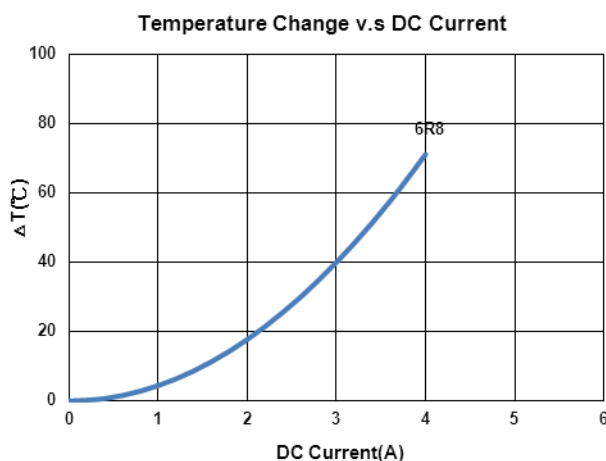
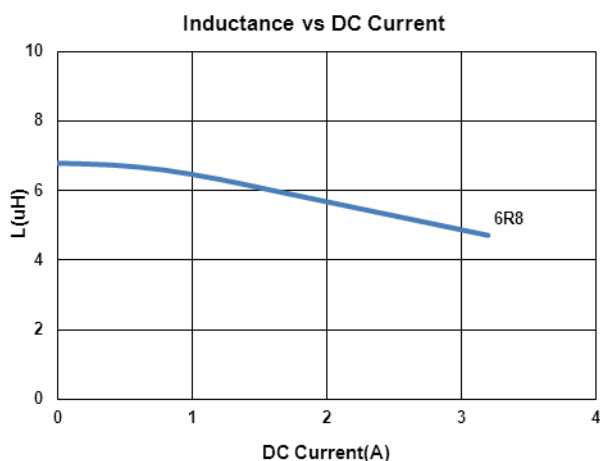
### Electrical Characteristics

| Part Number        | Inductance (uH) | Tolerance (±%) | Test Frequency (kHz) | RDC(mΩ) Max(Typ.) | Isat (A)Typ. | Irms (A)Typ. | Marking |
|--------------------|-----------------|----------------|----------------------|-------------------|--------------|--------------|---------|
| BMMN000505306R8MX2 | 6.8             | 20             | 100                  | 100(96)           | 3            | 3            | 6R8     |

**Note: When ordering, please specify tolerance code. Tolerance: M=±20%**

- Operating temperature range –55℃ ~ 125℃ (Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- I rms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment :  
 L : WK 3260B or WK 6500P, 100kHz 0.25V  
 RDC : CHEN HWA 502 or CHEN HWA 46502B  
 I rms : CHROMA 1810

**Test Instruments : WK3260B Impedance / Material Analyzer**



## Molding Power Inductors – BMMN Series

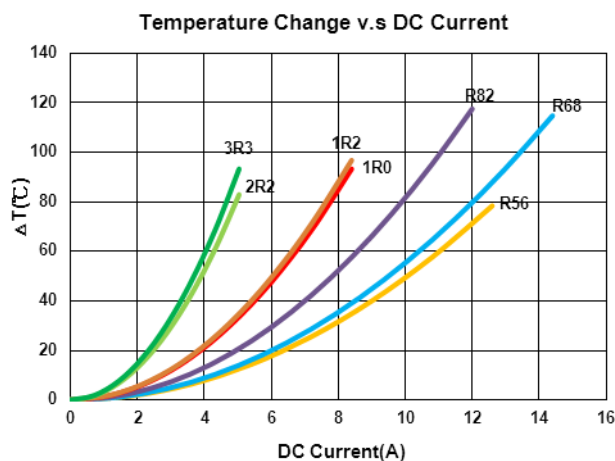
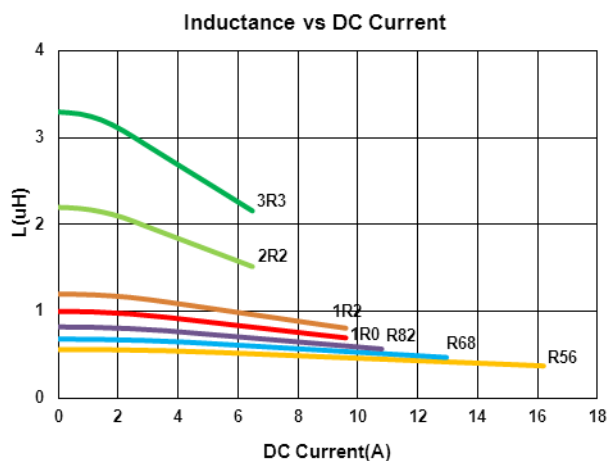
### Electrical Characteristics

| Part Number        | Inductance (uH) | Tolerance (±%) | Test Frequency (kHz) | RDC(mΩ) Max(Typ.) | Isat (A)Typ. | Irms (A)Typ. | Marking |
|--------------------|-----------------|----------------|----------------------|-------------------|--------------|--------------|---------|
| BMMN00060615R56MX2 | 0.56            | 20             | 100                  | 11(9.5)           | 14           | 9            | R56     |
| BMMN00060615R68MX2 | 0.68            | 20             | 100                  | 12(10.5)          | 12           | 8.5          | R68     |
| BMMN00060615R82MX2 | 0.82            | 20             | 100                  | 17(15)            | 10           | 7            | R82     |
| BMMN000606151R0MX2 | 1.0             | 20             | 100                  | 21(18.5)          | 9            | 5.5          | 1R0     |
| BMMN000606151R2MX2 | 1.2             | 20             | 100                  | 30(25)            | 8.5          | 5.4          | 1R2     |
| BMMN000606152R2MX2 | 2.2             | 20             | 100                  | 50(43)            | 6            | 3.5          | 2R2     |
| BMMN000606153R3MX2 | 3.3             | 20             | 100                  | 63(54)            | 5.5          | 3.3          | 3R3     |

**Note: When ordering, please specify tolerance code. Tolerance: M=±20%**

- Operating temperature range – 55°C ~ 125°C (Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- I rms for a 40°C temperature rise from 25°C ambient with current
- Measure Equipment :  
 L : WK 3260B or WK 6500P, 100kHz 0.25V  
 RDC : CHEN HWA 502 or CHEN HWA 46502B  
 I rms : CHROMA 1810

**Test Instruments :** WK3260B Impedance / Material Analyzer



## Molding Power Inductors – BMMN Series

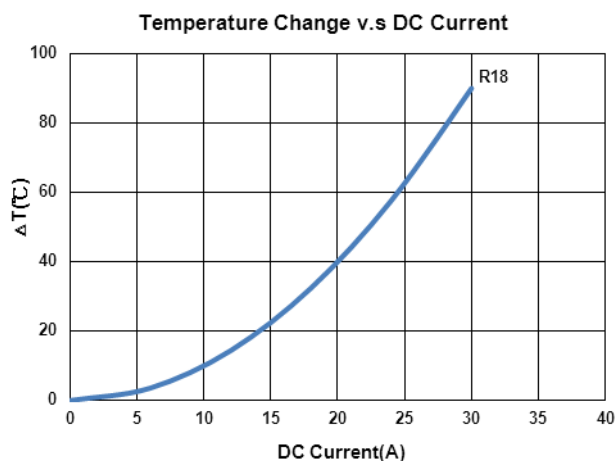
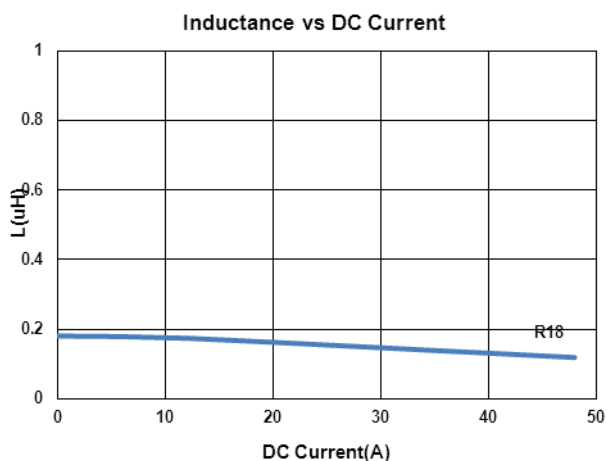
### Electrical Characteristics

| Part Number        | Inductance<br>( $\mu$ H) | Tolerance<br>( $\pm\%$ ) | Test<br>Frequency<br>(kHz) | RDC(m $\Omega$ )<br>Max(Typ.) | Isat(A)<br>Max(Typ.) | Irms(A)<br>Max(Typ.) | Marking |
|--------------------|--------------------------|--------------------------|----------------------------|-------------------------------|----------------------|----------------------|---------|
| BMMN00060618R18MX2 | 0.18                     | 20                       | 100                        | 3.6(3.1)                      | 35(41)               | 17(20)               | R18     |

**Note:** When ordering, please specify tolerance code. Tolerance: M= $\pm 20\%$

- Operating temperature range  $-55^{\circ}\text{C} \sim 125^{\circ}\text{C}$  (Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a  $40^{\circ}\text{C}$  temperature rise from  $25^{\circ}\text{C}$  ambient with current
- Measure Equipment :  
 L : WK 3260B or WK 6500P, 100kHz 0.25V  
 RDC : CHEN HWA 502 or CHEN HWA 46502B  
 Irms : CHROMA 1810

**Test Instruments :** WK3260B Impedance / Material Analyzer



## Molding Power Inductors – BMMN Series

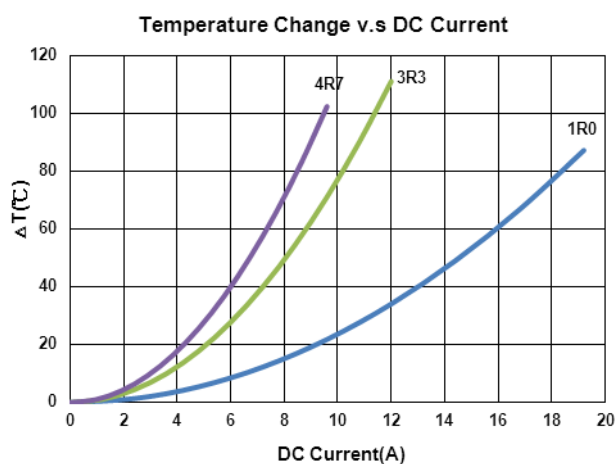
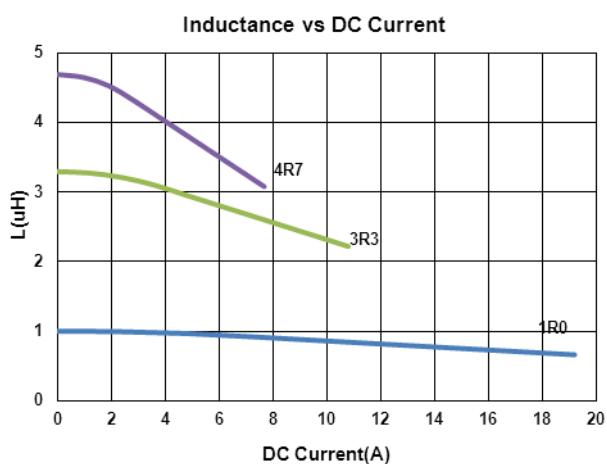
### Electrical Characteristics

| Part Number        | Inductance (uH) | Tolerance (±%) | Test Frequency (kHz) | RDC(mΩ)<br>Max(Typ.) | Isat(A)<br>Max(Typ.) | Irms(A)<br>Max(Typ.) | Marking |
|--------------------|-----------------|----------------|----------------------|----------------------|----------------------|----------------------|---------|
| BMMN000606301R0MX1 | 1.0             | 20             | 100                  | 7.25(6.6)            | 13.5(16.5)           | 11.2(13)             | 1R0     |
| BMMN000606303R3MX1 | 3.3             | 20             | 100                  | 22(17.9)             | 8.5(9.6)             | 6.2(7.2)             | 3R3     |
| BMMN000606304R7MX1 | 4.7             | 20             | 100                  | 33(27.9)             | 5.5(6.55)            | 5.5(6.0)             | 4R7     |

**Note: When ordering, please specify tolerance code. Tolerance: M=±20%**

- Operating temperature range –55℃ ~ 125℃ (Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- I rms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment :  
L : WK 3260B or WK 6500P, 100kHz 0.25V  
RDC : CHEN HWA 502 or CHEN HWA 46502B  
I rms : CHROMA 1810

**Test Instruments : WK3260B Impedance / Material Analyzer**



## Molding Power Inductors – BMMN Series

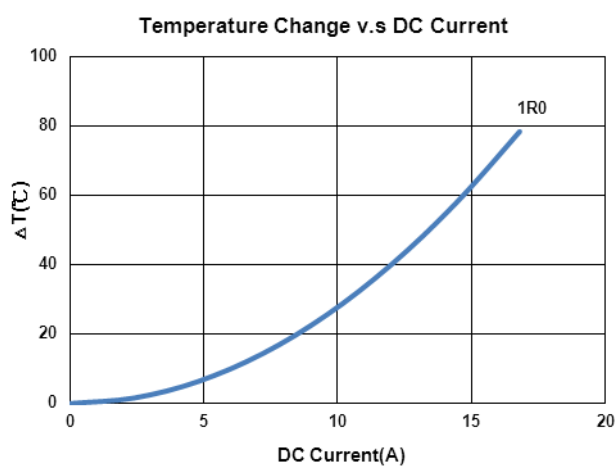
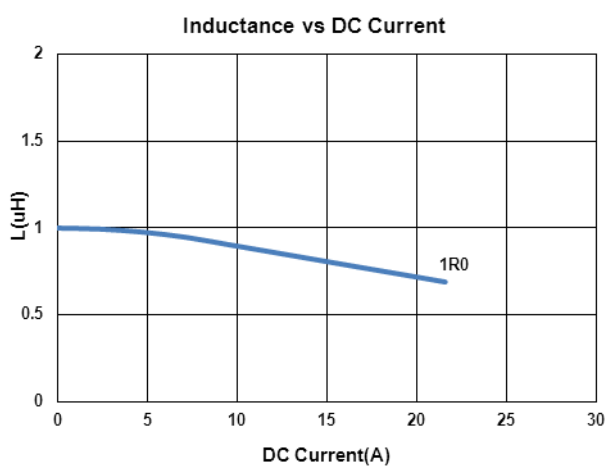
### Electrical Characteristics

| Part Number        | Inductance (uH) | Tolerance (±%) | Test Frequency (kHz) | RDC(mΩ)<br>Max(Typ.) | Isat(A)<br>Max(Typ.) | Irms(A)<br>Max(Typ.) | Marking |
|--------------------|-----------------|----------------|----------------------|----------------------|----------------------|----------------------|---------|
| BMMN001010201R0MX2 | 1.0             | 20             | 100                  | 10.4(9.0)            | 16(20)               | 11(12)               | 1R0     |

**Note: When ordering, please specify tolerance code. Tolerance: M=±20%**

- Operating temperature range –55℃ ~ 125℃ (Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment :  
L : WK 3260B or WK 6500P, 100kHz 0.25V  
RDC : CHEN HWA 502 or CHEN HWA 46502B  
Irms : CHROMA 1810

**Test Instruments : WK3260B Impedance / Material Analyzer**



## Molding Power Inductors – BMMN Series

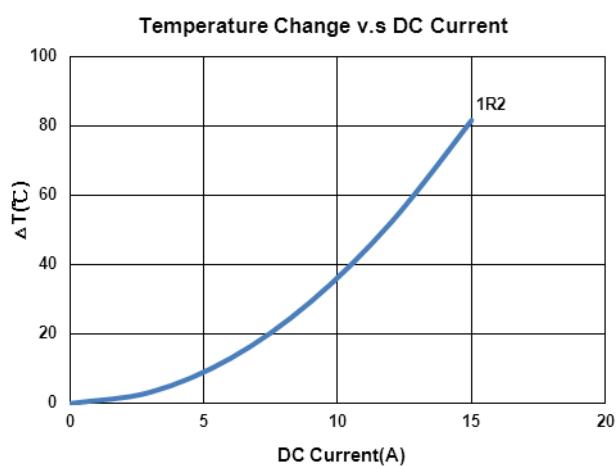
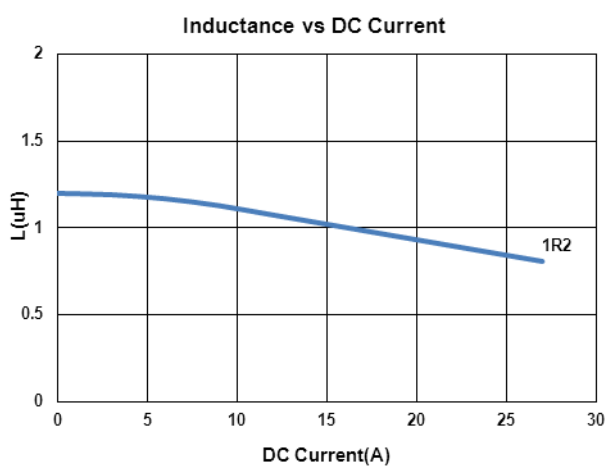
### Electrical Characteristics

| Part Number        | Inductance (uH) | Tolerance (±%) | Test Frequency (kHz) | RDC(mΩ)<br>Max(Typ.) | Isat(A)<br>Max(Typ.) | Irms(A)<br>Max(Typ.) | Marking |
|--------------------|-----------------|----------------|----------------------|----------------------|----------------------|----------------------|---------|
| BMMN001010301R2MX1 | 1.2             | 20             | 100                  | 15.2(12.5)           | 20(24)               | 9.5(10.5)            | 1R2     |

**Note: When ordering, please specify tolerance code. Tolerance: M=±20%**

- Operating temperature range –55°C ~ 125°C (Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C temperature rise from 25°C ambient with current
- Measure Equipment :  
L : WK 3260B or WK 6500P, 100kHz 0.25V  
RDC : CHEN HWA 502 or CHEN HWA 46502B  
Irms : CHROMA 1810

**Test Instruments : WK3260B Impedance / Material Analyzer**



## Molding Power Inductors – BMMN Series

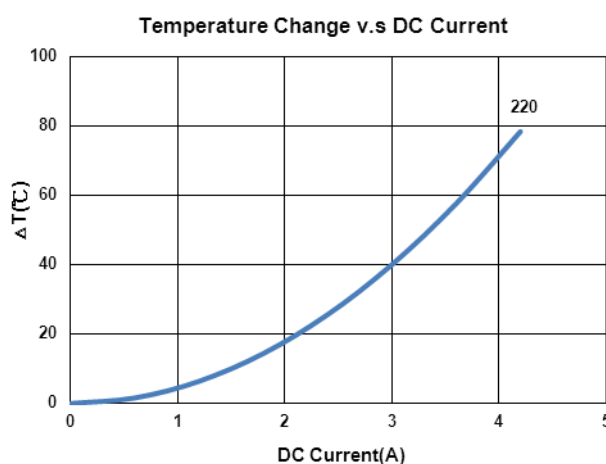
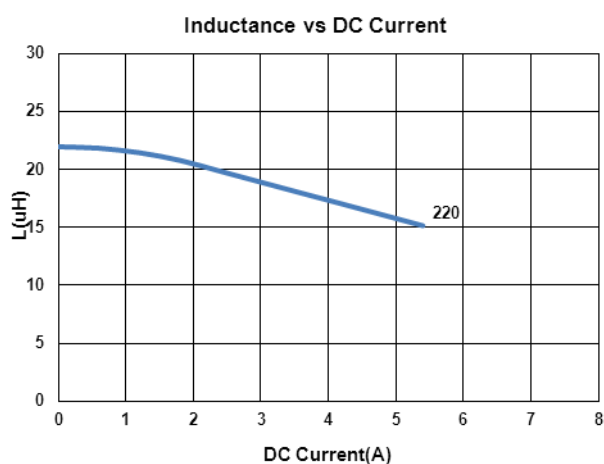
### Electrical Characteristics

| Part Number        | Inductance (uH) | Tolerance (±%) | Test Frequency (kHz) | RDC(mΩ) Max(Typ.) | Isat (A)Typ. | Irms (A)Typ. | Marking |
|--------------------|-----------------|----------------|----------------------|-------------------|--------------|--------------|---------|
| BMMN00101030220MX2 | 22              | 20             | 100                  | 99(90)            | 5.0          | 3.0          | 220     |

**Note: When ordering, please specify tolerance code. Tolerance: M=±20%**

- Operating temperature range –55℃ ~ 125℃ (Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- I rms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment :  
 L : WK 3260B or WK 6500P, 100kHz 0.25V  
 RDC : CHEN HWA 502 or CHEN HWA 46502B  
 I rms : CHROMA 1810

**Test Instruments : WK3260B Impedance / Material Analyzer**



## Molding Power Inductors – BMMN Series

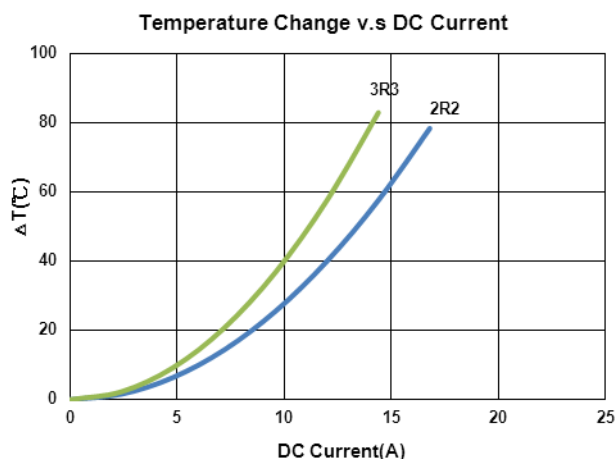
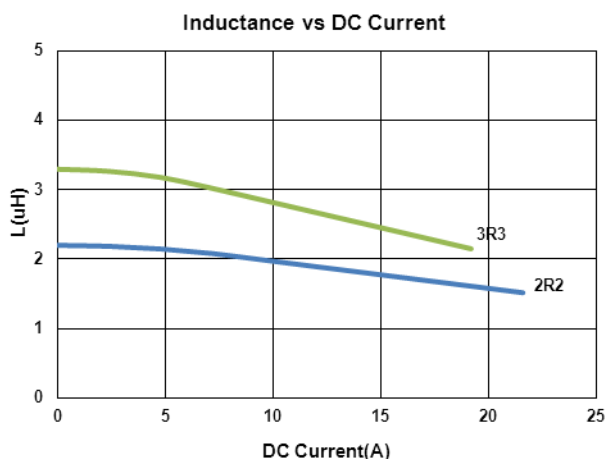
### Electrical Characteristics

| Part Number        | Inductance (uH) | Tolerance (±%) | Test Frequency (kHz) | RDC(mΩ) Max(Typ.) | Isat(A) Max(Typ.) | Irms(A) Max(Typ.) | Marking |
|--------------------|-----------------|----------------|----------------------|-------------------|-------------------|-------------------|---------|
| BMMN001010402R2MX1 | 2.2             | 20             | 100                  | 7(6)              | 16(20)            | 11(12)            | 2R2     |
| BMMN001010403R3MX1 | 3.3             | 20             | 100                  | 12(10.5)          | 14(16.2)          | 9(10)             | 3R3     |

**Note:** When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range —55°C ~ 125°C (Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- I rms for a 40°C temperature rise from 25°C ambient with current
- Measure Equipment :  
 L : WK 3260B or WK 6500P, 100kHz 0.25V  
 RDC : CHEN HWA 502 or CHEN HWA 46502B  
 I rms : CHROMA 1810

**Test Instruments :** WK3260B Impedance / Material Analyzer



## Molding Power Inductors – BMMN Series

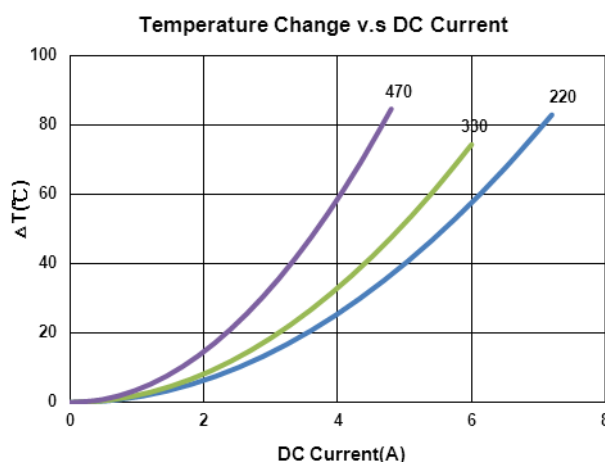
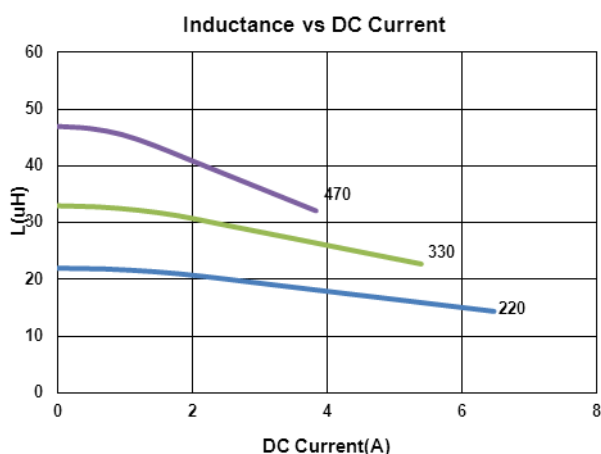
### Electrical Characteristics

| Part Number        | Inductance (uH) | Tolerance (±%) | Test Frequency (kHz) | RDC(mΩ) Max(Typ.) | Isat (A)Typ. | Irms (A)Typ. | Marking |
|--------------------|-----------------|----------------|----------------------|-------------------|--------------|--------------|---------|
| BMMN00101040220MX2 | 22              | 20             | 100                  | 66(60)            | 5.5          | 5.0          | 220     |
| BMMN00101040330MX2 | 33              | 20             | 100                  | 92(85)            | 5.0          | 4.4          | 330     |
| BMMN00101040470MX2 | 47              | 20             | 100                  | 145(130)          | 3.5          | 3.3          | 470     |

**Note: When ordering, please specify tolerance code. Tolerance: M=±20%**

- Operating temperature range –55℃ ~ 125℃ (Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- I rms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment :  
 L : WK 3260B or WK 6500P, 100kHz 0.25V  
 RDC : CHEN HWA 502 or CHEN HWA 46502B  
 I rms : CHROMA 1810

**Test Instruments : WK3260B Impedance / Material Analyzer**



## Molding Power Inductors – BMMN Series

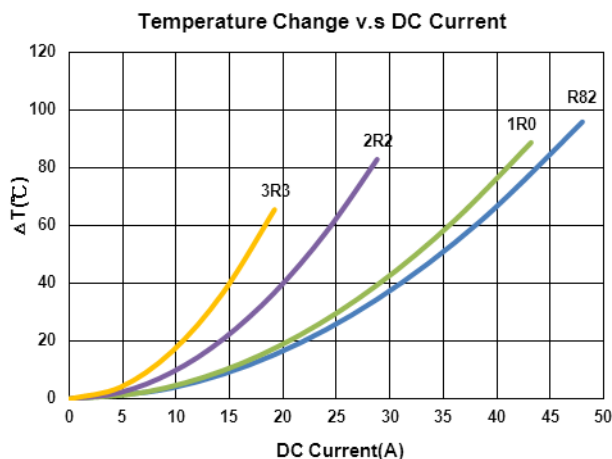
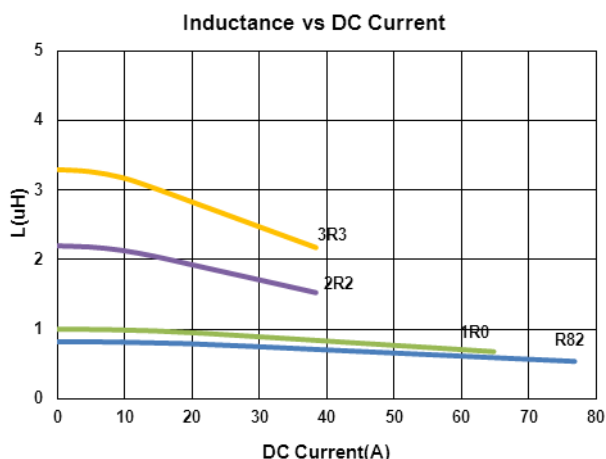
### Electrical Characteristics

| Part Number        | Inductance (uH) | Tolerance (±%) | Test Frequency (kHz) | RDC(mΩ)<br>Max(Typ.) | Isat(A)<br>Max(Typ.) | Irms(A)<br>Max(Typ.) | Marking |
|--------------------|-----------------|----------------|----------------------|----------------------|----------------------|----------------------|---------|
| BMMN00131350R82MX1 | 0.82            | 20             | 100                  | 2.0(1.7)             | 55(65)               | 28(31)               | R82     |
| BMMN001313501R0MX1 | 1.0             | 20             | 100                  | 2.5(2.05)            | 50(58)               | 26(29)               | 1R0     |
| BMMN001313502R2MX1 | 2.2             | 20             | 100                  | 5.2(4.5)             | 32(36)               | 19(20)               | 2R2     |
| BMMN001313503R3MX1 | 3.3             | 20             | 100                  | 8.6(7.5)             | 28(33)               | 14(15)               | 3R3     |

**Note: When ordering, please specify tolerance code. Tolerance: M=±20%**

- Operating temperature range – 55°C ~ 125°C (Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C temperature rise from 25°C ambient with current
- Measure Equipment :  
L : WK 3260B or WK 6500P, 100kHz 0.25V  
RDC : CHEN HWA 502 or CHEN HWA 46502B  
Irms : CHROMA 1810

**Test Instruments : WK3260B Impedance / Material Analyzer**



## Molding Power Inductors – BMMN Series

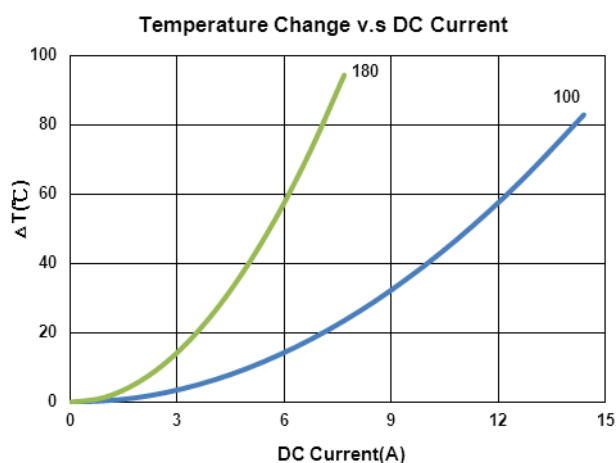
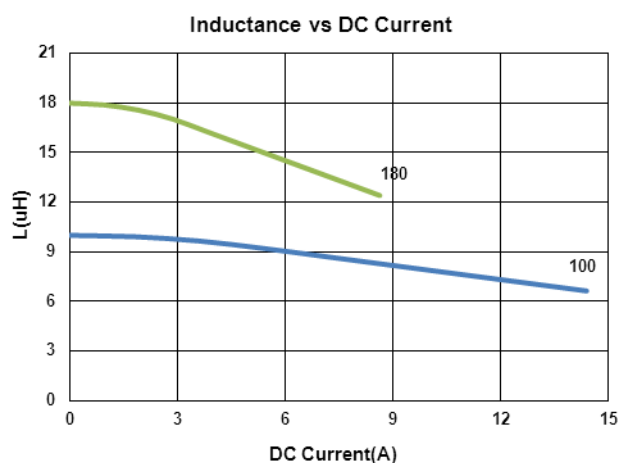
### Electrical Characteristics

| Part Number        | Inductance (uH) | Tolerance (±%) | Test Frequency (kHz) | RDC(mΩ) Max(Typ.) | Isat (A)Typ. | Irms (A)Typ. | Marking |
|--------------------|-----------------|----------------|----------------------|-------------------|--------------|--------------|---------|
| BMMN00131360100MX2 | 10              | 20             | 100                  | 20.7(18)          | 12.5         | 10           | 100     |
| BMMN00131360180MX2 | 18              | 20             | 100                  | 35(30)            | 8            | 5            | 180     |

**Note: When ordering, please specify tolerance code. Tolerance: M=±20%**

- Operating temperature range — 55°C ~ 125°C (Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C temperature rise from 25°C ambient with current
- Measure Equipment :  
 L : WK 3260B or WK 6500P, 100kHz 0.25V  
 RDC : CHEN HWA 502 or CHEN HWA 46502B  
 Irms : CHROMA 1810

**Test Instruments :** WK3260B Impedance / Material Analyzer



## Molding Power Inductors – BMMN Series

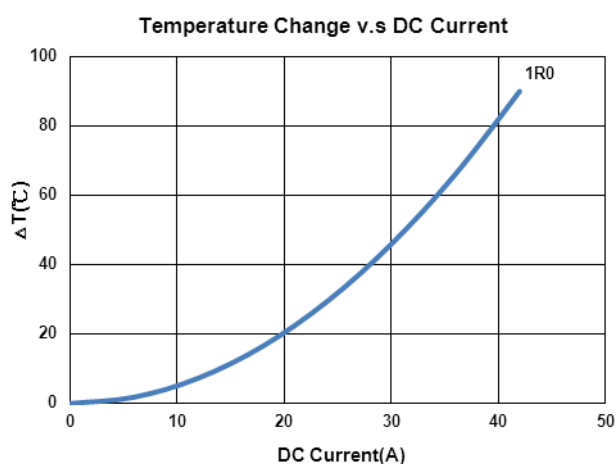
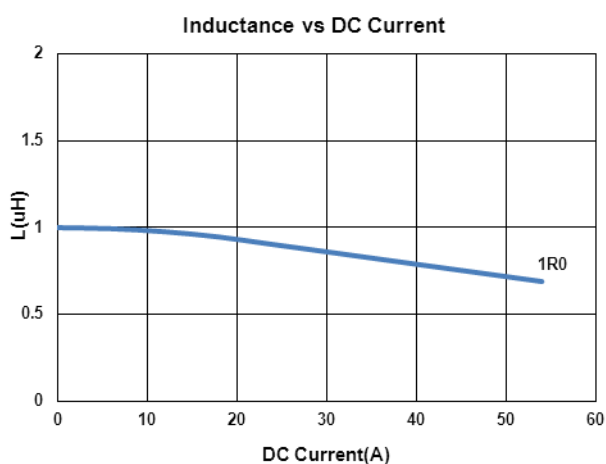
### Electrical Characteristics

| Part Number        | Inductance (uH) | Tolerance (±%) | Test Frequency (kHz) | RDC(mΩ) Max(Typ.) | Isat (A)Typ. | Irms (A)Typ. | Marking |
|--------------------|-----------------|----------------|----------------------|-------------------|--------------|--------------|---------|
| BMMN001313651R0MX2 | 1.0             | 20             | 100                  | 2.3(1.9)          | 50           | 28           | 1R0     |

**Note: When ordering, please specify tolerance code. Tolerance: M=±20%**

- Operating temperature range –55°C ~ 125°C (Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C temperature rise from 25°C ambient with current
- Measure Equipment :  
 L : WK 3260B or WK 6500P, 100kHz 0.25V  
 RDC : CHEN HWA 502 or CHEN HWA 46502B  
 Irms : CHROMA 1810

**Test Instruments : WK3260B Impedance / Material Analyzer**



## Molding Power Inductors – BMMN Series

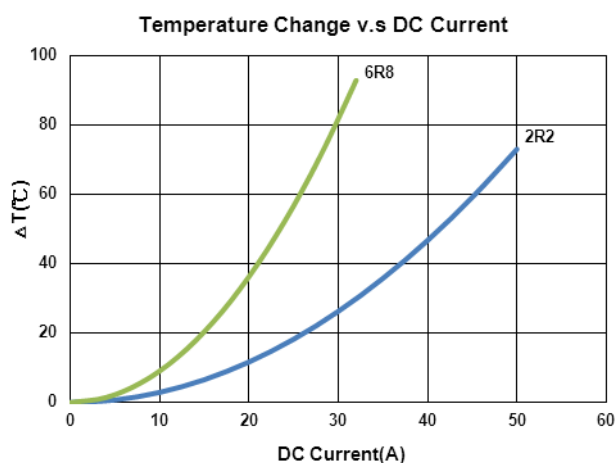
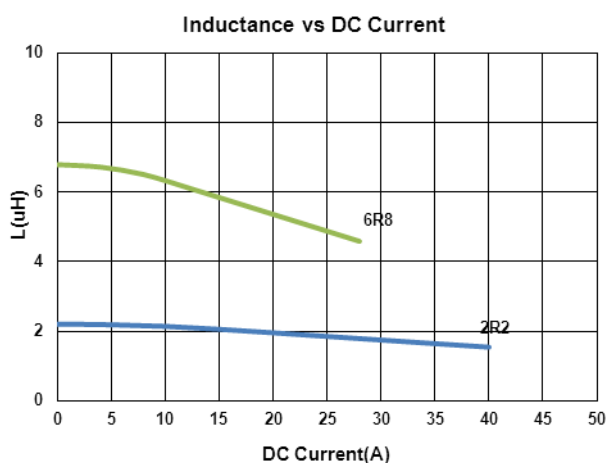
### Electrical Characteristics

| Part Number        | Inductance (uH) | Tolerance (±%) | Test Frequency (kHz) | RDC(mΩ)<br>Max(Typ.) | Isat(A)<br>Max(Typ.) | Irms(A)<br>Max(Typ.) | Marking |
|--------------------|-----------------|----------------|----------------------|----------------------|----------------------|----------------------|---------|
| BMMN001717702R2MX1 | 2.2             | 20             | 100                  | 2.5(2.1)             | 33(38)               | 30(37)               | 2R2     |
| BMMN001717706R8MX1 | 6.8             | 20             | 100                  | 7.5(6.5)             | 22(25)               | 19(21)               | 6R8     |

**Note:** When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range — 55°C ~ 125°C (Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C temperature rise from 25°C ambient with current
- Measure Equipment :  
 L : WK 3260B or WK 6500P, 100kHz 0.25V  
 RDC : CHEN HWA 502 or CHEN HWA 46502B  
 Irms : CHROMA 1810

**Test Instruments :** WK3260B Impedance / Material Analyzer



## Molding Power Inductors – BMMN Series

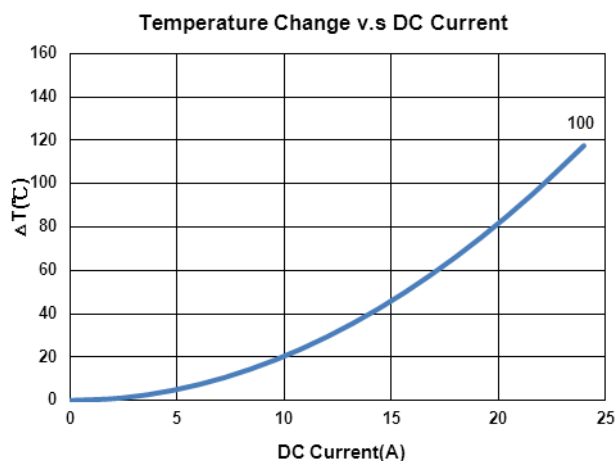
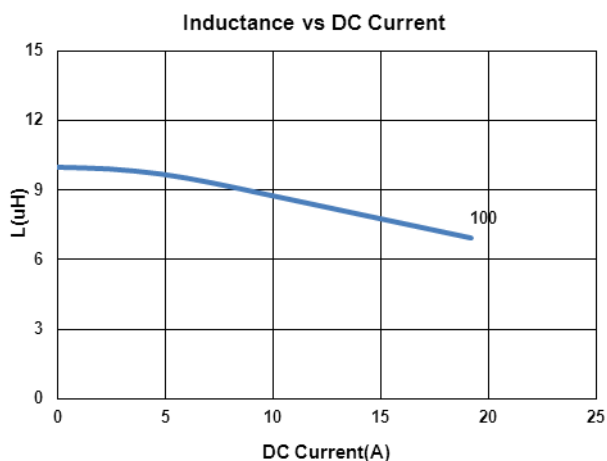
### Electrical Characteristics

| Part Number        | Inductance (uH) | Tolerance (±%) | Test Frequency (kHz) | RDC(mΩ) Max(Typ.) | Isat (A)Typ. | Irms (A)Typ. | Marking |
|--------------------|-----------------|----------------|----------------------|-------------------|--------------|--------------|---------|
| BMMN00171770100MX2 | 10              | 20             | 100                  | 10(9.3)           | 18           | 14           | 100     |

**Note: When ordering, please specify tolerance code. Tolerance: M=±20%**

- Operating temperature range –55℃ ~ 125℃ (Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- I rms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment :  
 L : WK 3260B or WK 6500P, 100kHz 0.25V  
 RDC : CHEN HWA 502 or CHEN HWA 46502B  
 I rms : CHROMA 1810

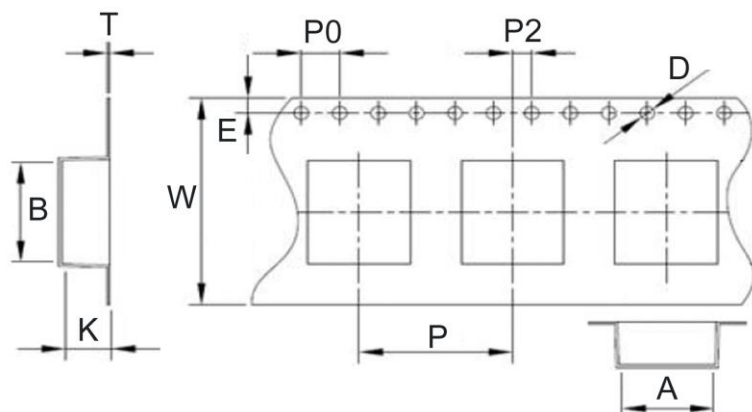
**Test Instruments : WK3260B Impedance / Material Analyzer**



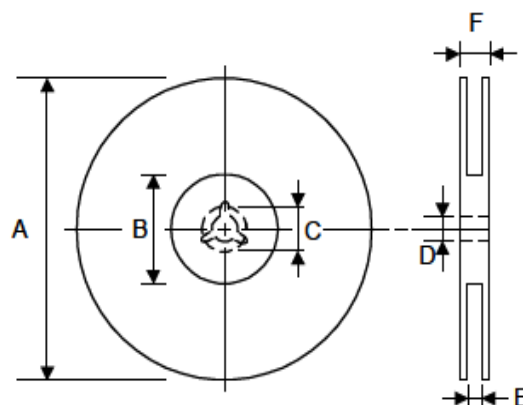
## Molding Power Inductors – BMMN Series

### Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

| TYPE         | Tape Dimensions |      |      |      |     |      |    |    |    |    | Reel Dimensions |     |      |    |      |      | Quantity<br>PCS / REEL |
|--------------|-----------------|------|------|------|-----|------|----|----|----|----|-----------------|-----|------|----|------|------|------------------------|
|              | A               | B    | K    | T    | D   | E    | W  | P  | P0 | P2 | A               | B   | C    | D  | E    | F    |                        |
| BMMN00040412 | 4.5             | 4.9  | 1.7  | 0.35 | 1.5 | 1.75 | 12 | 8  | 4  | 2  | 330             | 100 | 21.5 | 13 | 12.4 | 17.4 | 2000                   |
| BMMN00040420 | 4.5             | 4.9  | 2.4  | 0.35 | 1.5 | 1.75 | 12 | 8  | 4  | 2  | 330             | 100 | 21.5 | 13 | 12.4 | 17.4 | 2000                   |
| BMMN00050512 | 5.4             | 5.8  | 1.4  | 0.3  | 1.5 | 1.75 | 12 | 8  | 4  | 2  | 330             | 100 | 21.5 | 13 | 12.4 | 17.4 | 1000                   |
| BMMN00050515 | 5.4             | 5.8  | 1.95 | 0.3  | 1.5 | 1.75 | 12 | 8  | 4  | 2  | 330             | 100 | 21.5 | 13 | 12.4 | 17.4 | 1000                   |
| BMMN00050518 | 5.4             | 5.8  | 1.95 | 0.3  | 1.5 | 1.75 | 12 | 8  | 4  | 2  | 330             | 100 | 21.5 | 13 | 12.4 | 17.4 | 1000                   |
| BMMN00050530 | 5.0             | 5.4  | 3.2  | 0.35 | 1.5 | 1.75 | 12 | 8  | 4  | 2  | 330             | 100 | 21.5 | 13 | 12.4 | 17.4 | 1000                   |
| BMMN00060615 | 6.9             | 7.5  | 2.1  | 0.3  | 1.5 | 1.75 | 16 | 12 | 4  | 2  | 330             | 100 | 21.5 | 13 | 16.4 | 21.4 | 1000                   |
| BMMN00060618 | 6.9             | 7.5  | 2.1  | 0.3  | 1.5 | 1.75 | 16 | 12 | 4  | 2  | 330             | 100 | 21.5 | 13 | 16.4 | 21.4 | 1000                   |
| BMMN00060630 | 6.9             | 7.6  | 3.4  | 0.35 | 1.5 | 1.75 | 16 | 12 | 4  | 2  | 330             | 100 | 21.5 | 13 | 16.4 | 21.4 | 1000                   |
| BMMN00101020 | 10.4            | 11.5 | 2.8  | 0.35 | 1.5 | 1.75 | 24 | 16 | 4  | 2  | 330             | 100 | 21.5 | 13 | 24.2 | 29.2 | 500                    |
| BMMN00101030 | 10.4            | 11.5 | 3.4  | 0.35 | 1.5 | 1.75 | 24 | 16 | 4  | 2  | 330             | 100 | 21.5 | 13 | 24.2 | 29.2 | 500                    |
| BMMN00101040 | 10.4            | 11.5 | 4.5  | 0.35 | 1.5 | 1.75 | 24 | 16 | 4  | 2  | 330             | 100 | 21.5 | 13 | 24.2 | 29.2 | 500                    |
| BMMN00131350 | 13.4            | 14   | 5.4  | 0.4  | 1.5 | 1.75 | 24 | 16 | 4  | 2  | 330             | 100 | 21.5 | 13 | 24.2 | 29.2 | 250                    |
| BMMN00131360 | 13.2            | 14.4 | 6.3  | 0.4  | 1.5 | 1.75 | 24 | 16 | 4  | 2  | 330             | 100 | 21.5 | 13 | 24.2 | 29.2 | 250                    |
| BMMN00131365 | 13.4            | 14.1 | 6.8  | 0.4  | 1.5 | 1.75 | 24 | 16 | 4  | 2  | 330             | 100 | 21.5 | 13 | 24.2 | 29.2 | 250                    |
| BMMN00171770 | 17.45           | 18.5 | 7.8  | 0.5  | 1.5 | 1.75 | 32 | 24 | 4  | 2  | 330             | 100 | 21.5 | 13 | 32   | 37   | 100                    |

## Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

- ⊖ View [BMMN00171770100MX2](#) on WIN SOURCE
- ⊖ [Chilisin](#) Information

## Optimize Your Supply Chain with WIN SOURCE Solutions

- ✓ Global Sourcing Solution
- ✓ Obsolete Management
- ✓ Cost Control Management
- ✓ Shortage Management
- ✓ Alternative Solution
- ✓ Excess Inventory Management