

# DATA SHEET

## INDUCTOR

Power Inductors

BMRx Series

RoHS compliant & Halogen Free



## BMRx Series



BMRx 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.

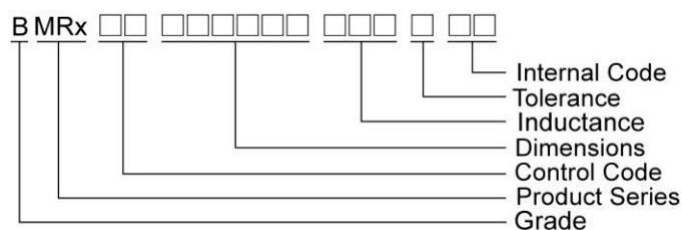
### Features

- RoHS, Halogen Free and REACH Compliance
- High rated current
- Ultra low buzz noise

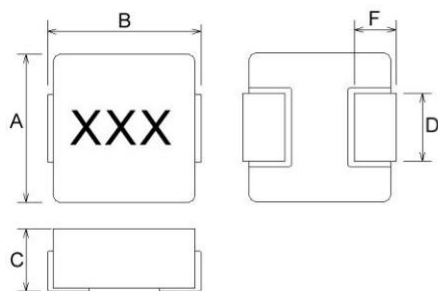
### Applications

- Laptops and PCs
- Switches and servers
- Base stations
- DC/DC converters

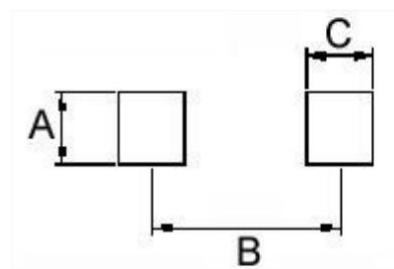
### Product Identification



### Shape and Dimensions



### Recommended Pattern



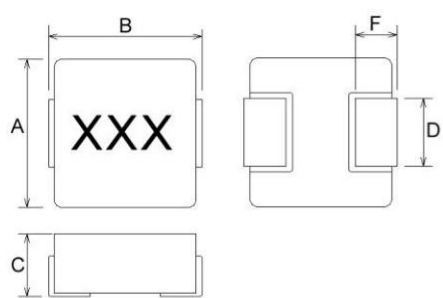
Dimensions in mm

| TYPE           | A        | B Max    | C Max   | D       | F       |
|----------------|----------|----------|---------|---------|---------|
| BMRA00040412   | 4.1±0.2  | 4.6±0.2  | 1.2     | 1.5±0.3 | 1.0±0.5 |
| BMRA00040415   | 4.1±0.2  | 4.6±0.2  | 1.5     | 1.5±0.3 | 1.0±0.5 |
| BMRA00040420   | 4.1±0.2  | 4.6±0.2  | 2.0     | 1.5±0.3 | 1.0±0.5 |
| BMRB00050512   | 5.4±0.35 | 5.7±0.2  | 1.2     | 2.0±0.3 | 1.1±0.3 |
| BMRx00050515   | 5.4±0.35 | 5.7±0.2  | 1.5     | 2.0±0.3 | 1.5±0.3 |
| BMRB00050518   | 5.4±0.35 | 5.7±0.2  | 1.8     | 2.0±0.3 | 1.5±0.3 |
| BMRB00050518-B | 5.2±0.2  | 5.4±0.35 | 1.6±0.2 | 2.0±0.3 | 1.1±0.3 |
| BMRA00050520   | 5.4±0.35 | 5.7±0.2  | 1.8±0.2 | 2.0±0.3 | 1.5±0.3 |
| BMRA00050530   | 5.4±0.35 | 5.7±0.2  | 3.0     | 2.0±0.3 | 1.5±0.3 |

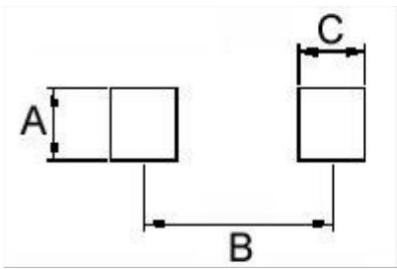
Dimensions in mm

| TYPE         | A   | B   | C   |
|--------------|-----|-----|-----|
| BMRA00040412 | 2.5 | 3.7 | 1.5 |
| BMRA00040415 | 2.5 | 3.7 | 1.5 |
| BMRA00040420 | 2.5 | 3.7 | 1.5 |
| BMRB00050512 | 2.5 | 4.1 | 1.9 |
| BMRx00050515 | 2.5 | 4.1 | 1.9 |
| BMRB00050518 | 2.5 | 4.1 | 1.9 |
| BMRA00050520 | 2.5 | 4.1 | 1.9 |
| BMRA00050530 | 2.5 | 4.1 | 1.9 |

Shape and Dimensions



Recommended Pattern



Dimensions in mm

| TYPE         | A        | B Max | C Max   | D   | F       |
|--------------|----------|-------|---------|-----|---------|
| BMRB00060612 | 6.6±0.2  | 7.3   | 1.2     | 2.9 | 1.6±0.5 |
| BMRx00060615 | 6.6±0.2  | 7.3   | 1.3±0.2 | 2.9 | 1.6±0.5 |
| BMRB00060618 | 6.6±0.2  | 7.3   | 1.6±0.2 | 2.9 | 1.6±0.5 |
| BMRB00060624 | 6.6±0.2  | 7.3   | 2.4     | 2.9 | 1.6±0.5 |
| BMRx00060630 | 6.6±0.2  | 7.3   | 3.0     | 2.9 | 1.6±0.5 |
| BMRB00060650 | 6.6±0.2  | 7.3   | 5.0     | 2.9 | 1.6±0.5 |
| BMRG00101030 | 10.1±0.3 | 11.6  | 3.0     | 3.0 | 2.5±0.5 |
| BMRF00101040 | 10.1±0.3 | 11.6  | 4.0     | 3.0 | 2.5±0.5 |
| BMRF00131350 | 12.6±0.2 | 13.8  | 5.0     | 3.7 | 2.7±0.7 |
| BMRG00131360 | 12.6±0.2 | 13.8  | 6.0     | 3.7 | 2.7±0.7 |

Dimensions in mm

| TYPE         | A   | B    | C    |
|--------------|-----|------|------|
| BMRB00060612 | 3.5 | 6.05 | 2.35 |
| BMRx00060615 | 3.5 | 6.05 | 2.35 |
| BMRB00060618 | 3.5 | 6.05 | 2.35 |
| BMRB00060624 | 3.5 | 6.05 | 2.35 |
| BMRx00060630 | 3.5 | 6.05 | 2.35 |
| BMRB00060650 | 3.5 | 6.05 | 2.35 |
| BMRG00101030 | 4.0 | 9.5  | 3.5  |
| BMRF00101040 | 4.0 | 9.5  | 3.5  |
| BMRF00131350 | 5.0 | 10.5 | 4.0  |
| BMRG00131360 | 5.5 | 10.5 | 4.0  |

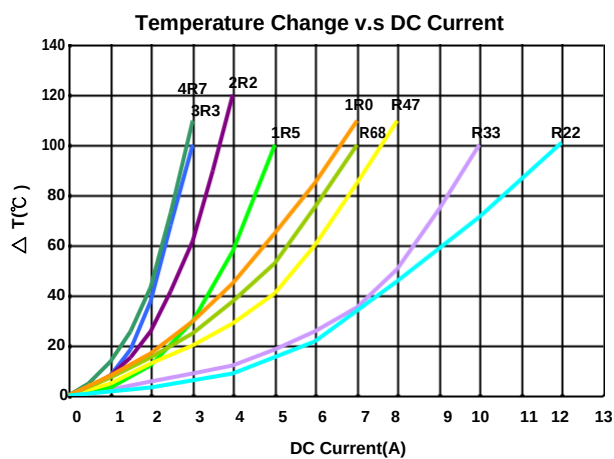
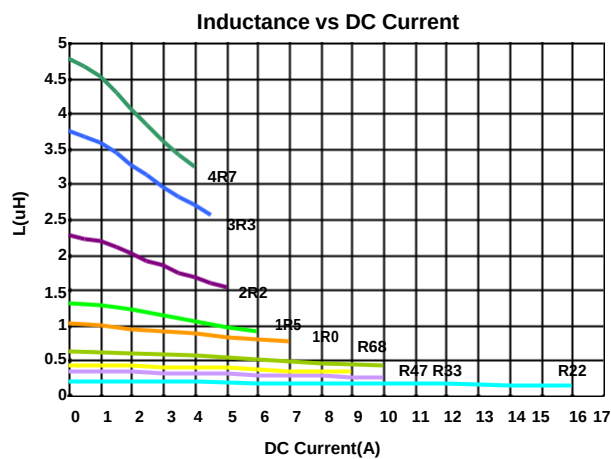
## Electrical Characteristics

| Part Number        | Inductance (uH) | Tolerance (±%) | Test Frequency (kHz) | RDC (mΩ) Max | Isat (A)Typ. | Irms (A)Typ. |
|--------------------|-----------------|----------------|----------------------|--------------|--------------|--------------|
| BMRA00040412R22MA1 | 0.22            | 20             | 100                  | 12           | 11.5         | 8.5          |
| BMRA00040412R33MA1 | 0.33            | 20             | 100                  | 19           | 8.5          | 6.5          |
| BMRA00040412R47MA1 | 0.47            | 20             | 100                  | 25           | 7.0          | 5.0          |
| BMRA00040412R68MA1 | 0.68            | 20             | 100                  | 36           | 6.0          | 4.5          |
| BMRA000404121R0MA1 | 1.0             | 20             | 100                  | 47           | 5.2          | 4.2          |
| BMRA000404121R5MA1 | 1.5             | 20             | 100                  | 75           | 4.0          | 3.25         |
| BMRA000404122R2MA1 | 2.2             | 20             | 100                  | 83.5         | 3.5          | 2.75         |
| BMRA000404123R3MA1 | 3.3             | 20             | 100                  | 165          | 3.0          | 2.0          |
| BMRA000404124R7MA1 | 4.7             | 20             | 100                  | 195          | 2.8          | 1.8          |

**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
- Absolute maximum voltage 30VDC
- Measure Equipment :  
L : WK 3260B or WK 6500P, 100kHz 0.5V  
RDC : CHEN HWA 502 or CHEN HWA 46502B

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



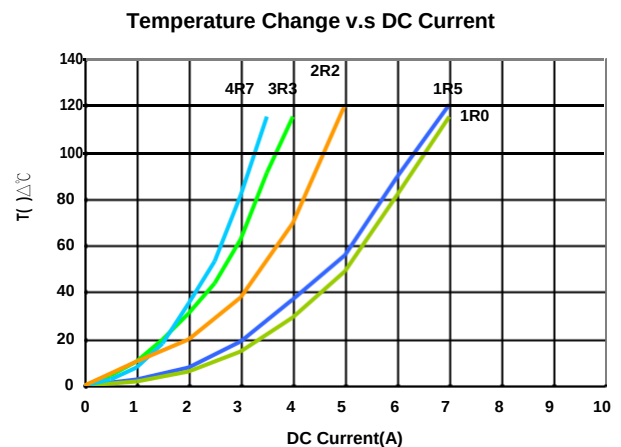
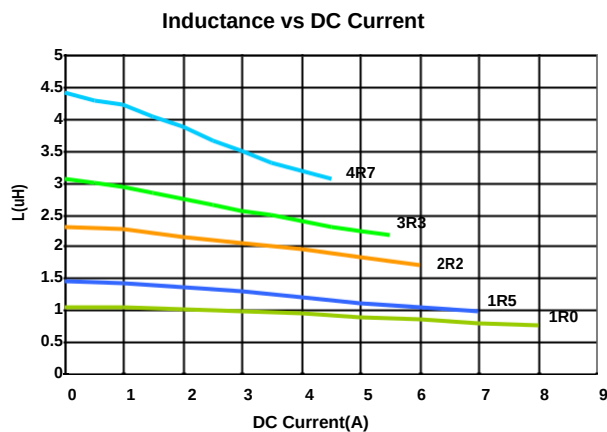
## Electrical Characteristics

| Part Number        | Inductance<br>( $\mu$ H) | Tolerance<br>( $\pm$ %) | Test<br>Frequency<br>(kHz) | RDC<br>(m $\Omega$ ) Max | Isat<br>(A)Typ. | Irms<br>(A)Typ. |
|--------------------|--------------------------|-------------------------|----------------------------|--------------------------|-----------------|-----------------|
| BMRA000404151R0MA1 | 1.0                      | 20                      | 100                        | 42                       | 7               | 4               |
| BMRA000404151R5MA1 | 1.5                      | 20                      | 100                        | 50                       | 6               | 3.5             |
| BMRA000404152R2MA1 | 2.2                      | 20                      | 100                        | 79                       | 5               | 3               |
| BMRA000404153R3MA1 | 3.3                      | 20                      | 100                        | 132                      | 4.5             | 2.3             |
| BMRA000404154R7MA1 | 4.7                      | 20                      | 100                        | 146                      | 4               | 2               |

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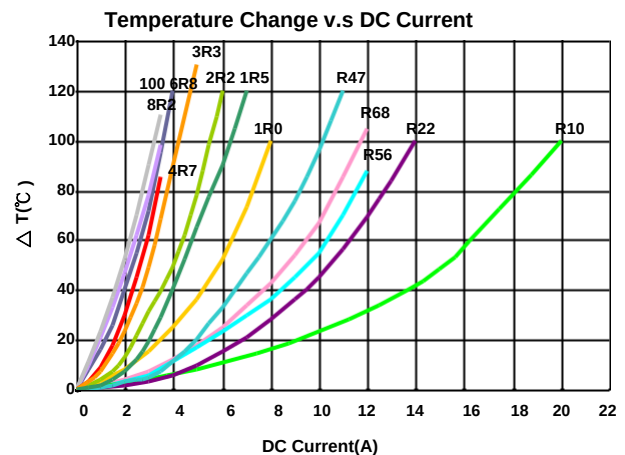
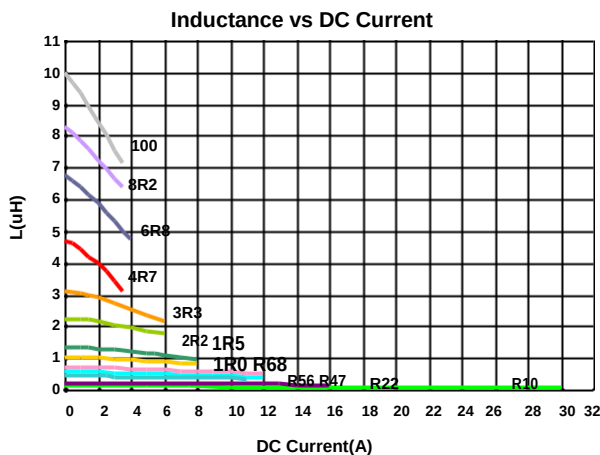
## Electrical Characteristics

| Part Number        | Inductance<br>( $\mu$ H) | Tolerance<br>( $\pm\%$ ) | Test<br>Frequency<br>(kHz) | RDC<br>(m $\Omega$ ) Max | Isat<br>(A)Typ. | Irms<br>(A)Typ. |
|--------------------|--------------------------|--------------------------|----------------------------|--------------------------|-----------------|-----------------|
| BMRA00040420R10MA1 | 0.10                     | 20                       | 100                        | 4                        | 25              | 12.0            |
| BMRA00040420R22MA1 | 0.22                     | 20                       | 100                        | 6.6                      | 12.5            | 9.0             |
| BMRA00040420R47MA1 | 0.47                     | 20                       | 100                        | 14                       | 9.5             | 7.0             |
| BMRA00040420R56MA1 | 0.56                     | 20                       | 100                        | 16                       | 10.0            | 6.5             |
| BMRA00040420R68MA1 | 0.68                     | 20                       | 100                        | 21                       | 8.0             | 5.2             |
| BMRA000404201R0MA1 | 1.0                      | 20                       | 100                        | 27                       | 7.0             | 4.5             |
| BMRA000404201R5MA1 | 1.5                      | 20                       | 100                        | 46                       | 6.0             | 4.0             |
| BMRA000404202R2MA1 | 2.2                      | 20                       | 100                        | 58                       | 5.0             | 3.0             |
| BMRA000404203R3MA1 | 3.3                      | 20                       | 100                        | 87                       | 4.0             | 2.5             |
| BMRA000404204R7MA1 | 4.7                      | 20                       | 100                        | 126                      | 3.0             | 2.2             |
| BMRA000404206R8MA1 | 6.8                      | 20                       | 100                        | 135                      | 2.5             | 2.0             |
| BMRA000404208R2MA1 | 8.2                      | 20                       | 100                        | 216                      | 2.5             | 2.0             |
| BMRA00040420100MA1 | 10                       | 20                       | 100                        | 258                      | 2.0             | 1.6             |

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- Absolute maximum voltage 30VDC
- Measure Equipment :  
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RDC : CHEN HWA 502 or CHEN HWA 46502B

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



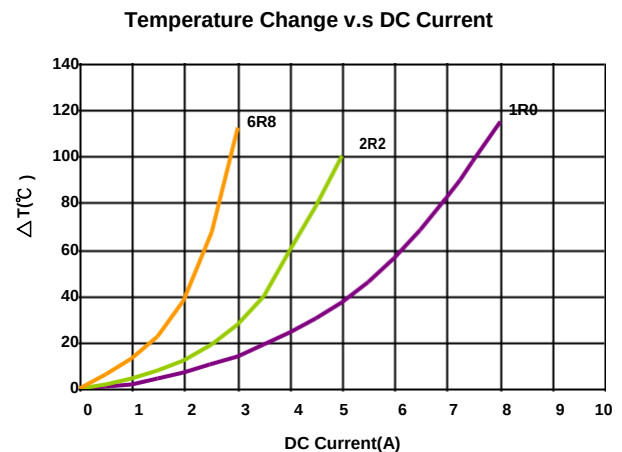
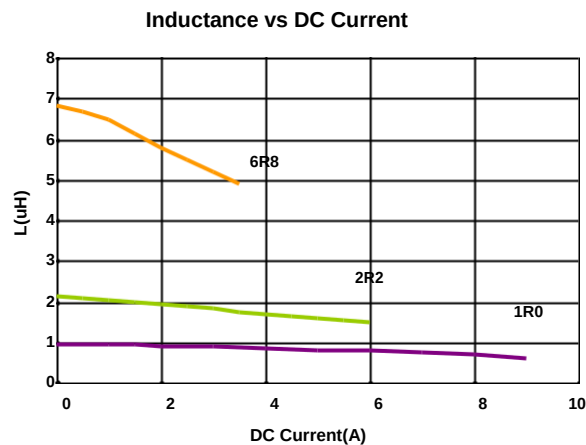
## Electrical Characteristics

| Part Number        | Inductance (uH) | Tolerance (±%) | Test Frequency (kHz) | RDC (mΩ) Max | Isat (A)Typ. | Irms (A)Typ. |
|--------------------|-----------------|----------------|----------------------|--------------|--------------|--------------|
| BMRB000505121R0MA1 | 1.0             | 20             | 100                  | 30           | 6.0          | 5.0          |
| BMRB000505122R2MA1 | 2.2             | 20             | 100                  | 76           | 4.0          | 3.5          |
| BMRB000505126R8MA1 | 6.8             | 20             | 100                  | 250          | 2.3          | 2.0          |

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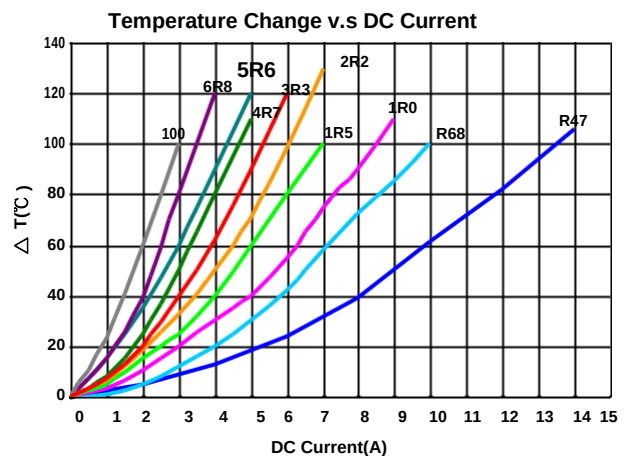
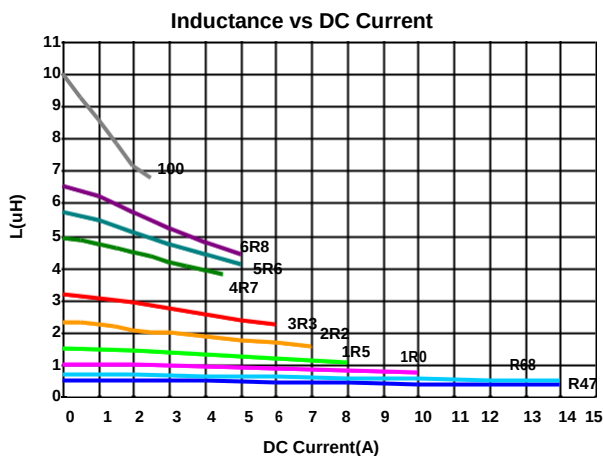
## Electrical Characteristics

| Part Number        | Inductance (uH) | Tolerance (±%) | Test Frequency (kHz) | RDC (mΩ) Max | Isat (A)Typ. | Irms (A)Typ. |
|--------------------|-----------------|----------------|----------------------|--------------|--------------|--------------|
| BMRA00050515R47MA1 | 0.47            | 20             | 100                  | 16           | 12           | 8.0          |
| BMRA00050515R68MA1 | 0.68            | 20             | 100                  | 23           | 10           | 6.0          |
| BMRA000505151R0MA1 | 1.0             | 20             | 100                  | 33           | 8.0          | 5.0          |
| BMRA000505151R5MA1 | 1.5             | 20             | 100                  | 50           | 6.0          | 4.0          |
| BMRA000505152R2MA1 | 2.2             | 20             | 100                  | 68           | 6.0          | 3.3          |
| BMRA000505153R3MA1 | 3.3             | 20             | 100                  | 84           | 5.0          | 3.0          |
| BMRA000505154R7MA1 | 4.7             | 20             | 100                  | 135          | 4.0          | 2.5          |
| BMRA000505155R6MA1 | 5.6             | 20             | 100                  | 175          | 3.5          | 2.2          |
| BMRA000505156R8MA1 | 6.8             | 20             | 100                  | 192          | 3.0          | 2.0          |
| BMRA00050515100MA1 | 10              | 20             | 100                  | 195          | 2.0          | 1.5          |

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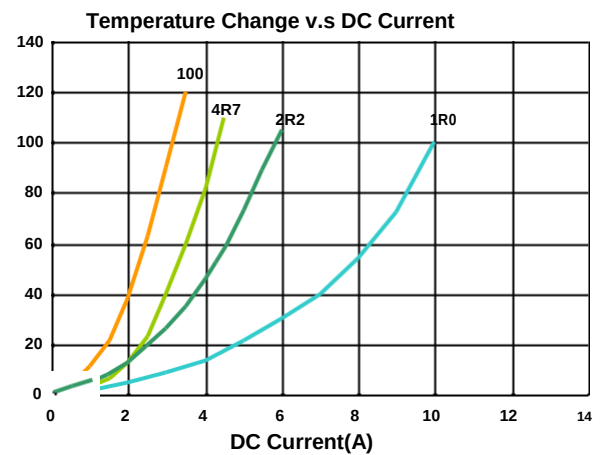
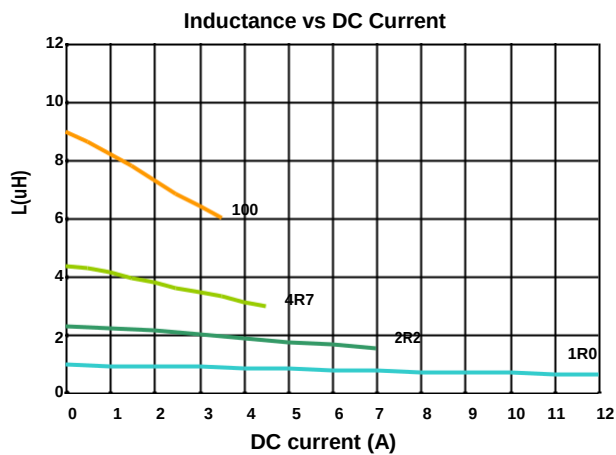
## Electrical Characteristics

| Part Number        | Inductance (uH) | Tolerance (±%) | Test Frequency (kHz) | RDC (mΩ) Max | Isat (A)Typ. | Irms (A)Typ. |
|--------------------|-----------------|----------------|----------------------|--------------|--------------|--------------|
| BMRB000505151R0MA1 | 1.0             | 20             | 100                  | 23           | 9            | 6.5          |
| BMRB000505152R2MA1 | 2.2             | 20             | 100                  | 64           | 6            | 3.3          |
| BMRB000505154R7MA1 | 4.7             | 20             | 100                  | 106          | 4            | 3.0          |
| BMRB00050515100MA1 | 10              | 20             | 100                  | 170          | 3            | 2.0          |

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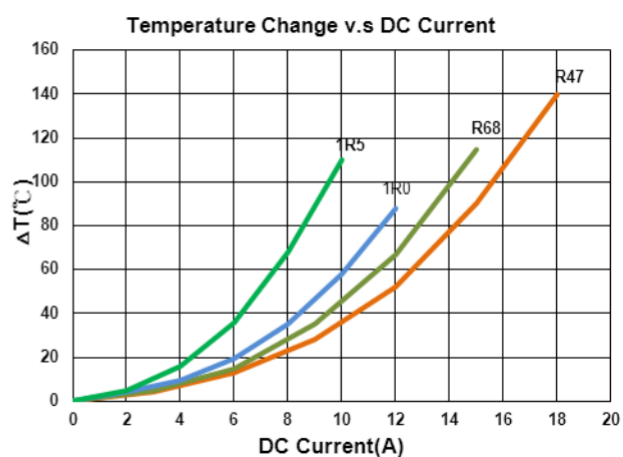
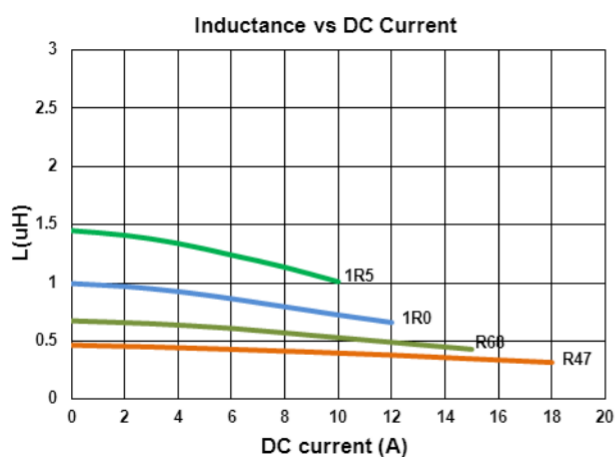
## Electrical Characteristics

| Part Number        | Inductance<br>( $\mu$ H) | Tolerance<br>( $\pm\%$ ) | Test<br>Frequency<br>(kHz) | RDC(m $\Omega$ )<br>Max(Typ) | Isat<br>(A)Typ. | Irms<br>(A)Typ. |
|--------------------|--------------------------|--------------------------|----------------------------|------------------------------|-----------------|-----------------|
| BMRB00050518R47MB1 | 0.47                     | 20                       | 100                        | 8.5(7.6)                     | 15.5            | 10.5            |
| BMRB00050518R68MB1 | 0.68                     | 20                       | 100                        | 13.8(12)                     | 13              | 9               |
| BMRB000505181R0MB1 | 1.0                      | 20                       | 100                        | 18(15)                       | 10              | 8               |
| BMRB000505181R5MB1 | 1.5                      | 20                       | 100                        | 28(23)                       | 9               | 6.2             |

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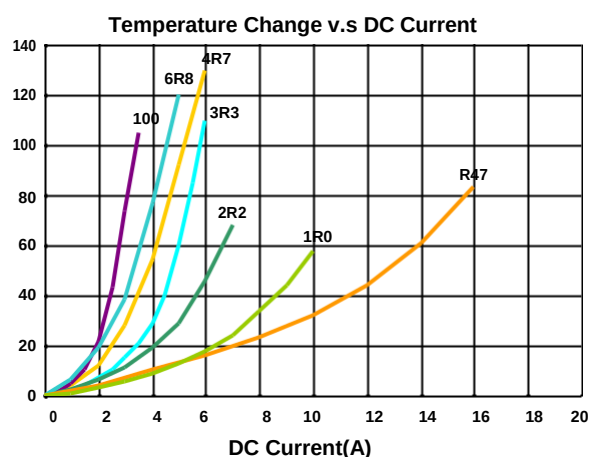
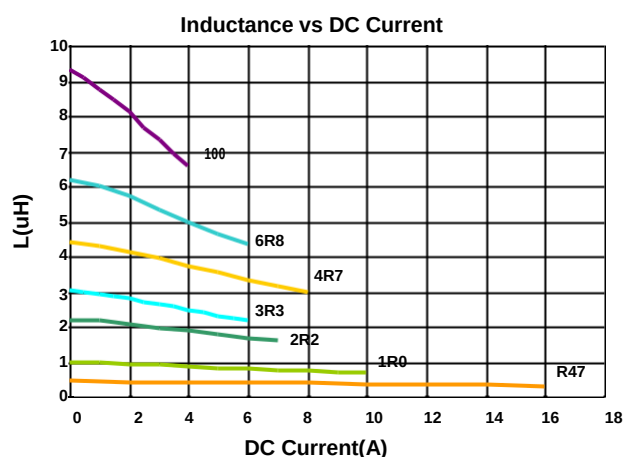
## Electrical Characteristics

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|--------------------|-----------------|----------------|----------------------|--------------|--------------|--------------|
| BMRB00050518R47MA1 | 0.47            | 20             | 100                  | 9.0          | 15.5         | 10.5         |
| BMRB000505181R0MA1 | 1.0             | 20             | 100                  | 17           | 9.0          | 8.0          |
| BMRB000505182R2MA1 | 2.2             | 20             | 100                  | 35           | 6.5          | 5.0          |
| BMRB000505183R3MA1 | 3.3             | 20             | 100                  | 58           | 5.0          | 4.5          |
| BMRB000505184R7MA1 | 4.7             | 20             | 100                  | 85           | 4.0          | 3.5          |
| BMRB000505186R8MA1 | 6.8             | 20             | 100                  | 120          | 3.4          | 2.8          |
| BMRB00050518100MA1 | 10              | 20             | 100                  | 155          | 3.0          | 2.5          |

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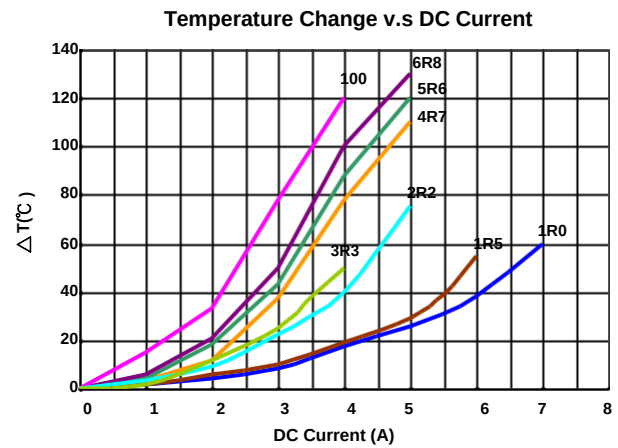
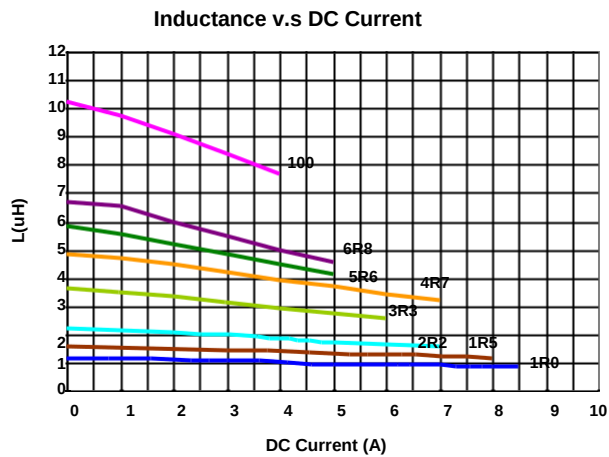
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|--------------------|-----------------|----------------|----------------------|--------------|--------------|--------------|
| BMRA00050520R47MA1 | 0.47            | 20             | 100                  | 9            | 15.5         | 10.5         |
| BMRA000505201R0MA1 | 1.0             | 20             | 100                  | 30           | 7.0          | 6.0          |
| BMRA000505201R5MA1 | 1.5             | 20             | 100                  | 35           | 6.5          | 5.5          |
| BMRA000505202R2MA1 | 2.2             | 20             | 100                  | 45           | 6.0          | 4.0          |
| BMRA000505203R3MA1 | 3.3             | 20             | 100                  | 60           | 5.5          | 3.5          |
| BMRA000505204R7MA1 | 4.7             | 20             | 100                  | 90           | 5.0          | 3.0          |
| BMRA000505205R6MA1 | 5.6             | 20             | 100                  | 120          | 4.5          | 2.8          |
| BMRA000505206R8MA1 | 6.8             | 20             | 100                  | 125          | 4.5          | 2.8          |
| BMRA00050520100MA1 | 10              | 20             | 100                  | 180          | 4.0          | 2.3          |

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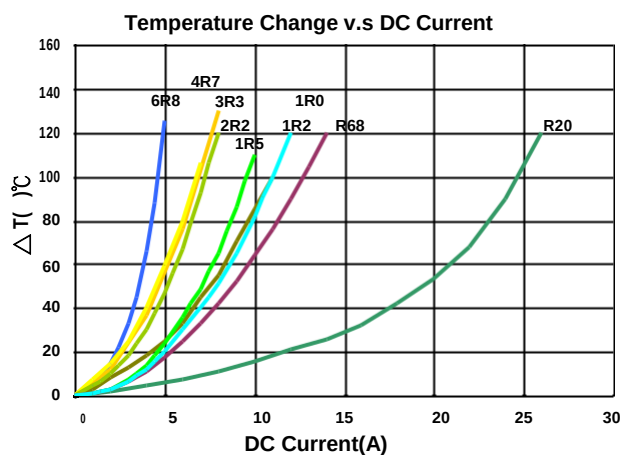
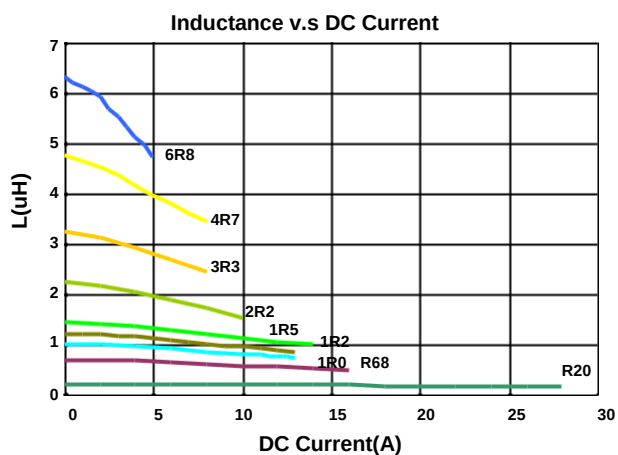
## Electrical Characteristics

| Part Number        | Inductance (uH) | Tolerance (±%) | Test Frequency (kHz) | RDC (mΩ)Max | Isat (A)Typ. | Irms (A)Typ. |
|--------------------|-----------------|----------------|----------------------|-------------|--------------|--------------|
| BMRA00050530R20MA1 | 0.20            | 20             | 100                  | 3.9         | 14.5         | 17.0         |
| BMRA00050530R47MA1 | 0.47            | 20             | 100                  | 8           | 14           | 10.0         |
| BMRA00050530R68MA1 | 0.68            | 20             | 100                  | 12          | 14           | 8.0          |
| BMRA000505301R0MA1 | 1.0             | 20             | 100                  | 15          | 11           | 7.0          |
| BMRA000505301R2MA1 | 1.2             | 20             | 100                  | 15          | 11           | 6.5          |
| BMRA000505301R5MA1 | 1.5             | 20             | 100                  | 25          | 10           | 6.0          |
| BMRA000505302R2MA1 | 2.2             | 20             | 100                  | 35          | 8            | 5.0          |
| BMRA000505303R3MA1 | 3.3             | 20             | 100                  | 46          | 7            | 4.5          |
| BMRA000505304R7MA1 | 4.7             | 20             | 100                  | 60          | 6            | 4.0          |
| BMRA000505306R8MA1 | 6.8             | 20             | 100                  | 110         | 5            | 3.0          |
| BMRA00050530100MA1 | 10              | 20             | 100                  | 126         | 4.5          | 2.5          |

**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
- Absolute maximum voltage 30VDC
- Measure Equipment :  
L : WK 3260B or WK 6500P, 100kHz 0.5V  
RDC : CHEN HWA 502 or CHEN HWA 46502B

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



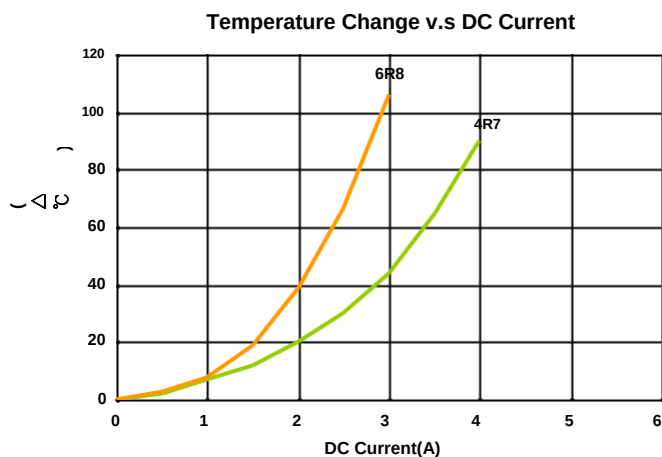
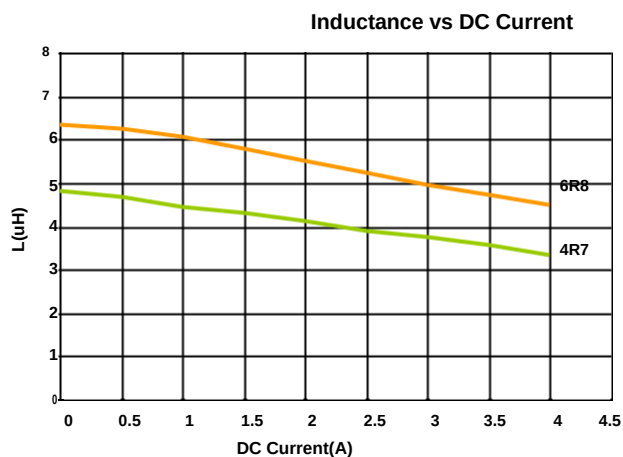
## Electrical Characteristics

| Part Number        | Inductance (uH) | Tolerance (±%) | Test Frequency (kHz) | RDC (mΩ) Max | Isat (A)Typ. | Irms (A)Typ. |
|--------------------|-----------------|----------------|----------------------|--------------|--------------|--------------|
| BMRB000606124R7MA1 | 4.7             | 20             | 100                  | 122          | 3.5          | 2.5          |
| BMRB000606126R8MA1 | 6.8             | 20             | 100                  | 210          | 2.8          | 2.2          |

**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
- Absolute maximum voltage 30VDC
- Measure Equipment :  
L : WK 3260B or WK 6500P, 100kHz 0.5V  
RDC : CHEN HWA 502 or CHEN HWA 46502B

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



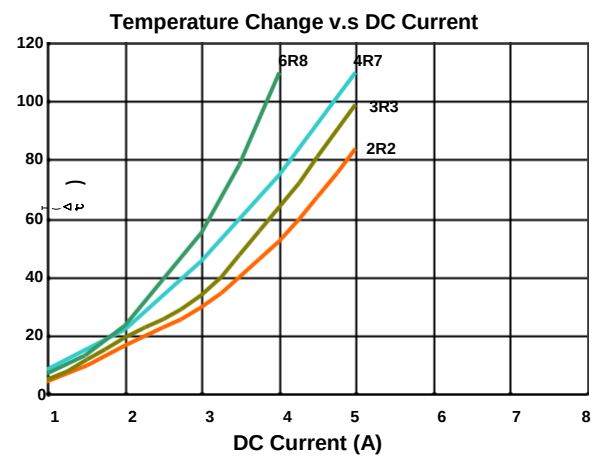
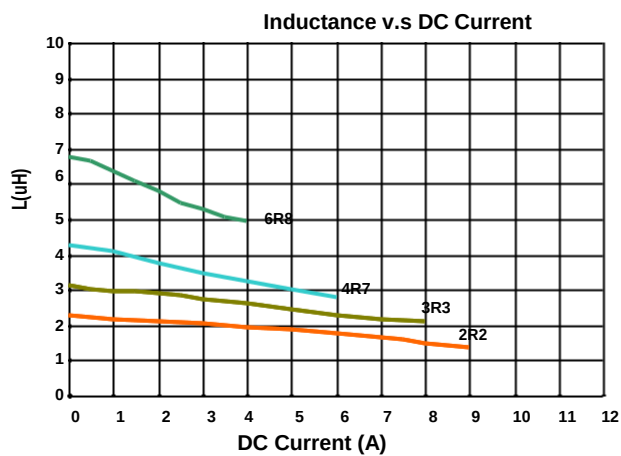
## Electrical Characteristics

| Part Number        | Inductance (uH) | Tolerance (±%) | Test Frequency (kHz) | RDC (mΩ)Max | Isat (A)Typ. | Irms (A)Typ. |
|--------------------|-----------------|----------------|----------------------|-------------|--------------|--------------|
| BMRA000606152R2MA1 | 2.2             | 20             | 100                  | 54          | 6.0          | 3.5          |
| BMRA000606153R3MA1 | 3.3             | 20             | 100                  | 63          | 5.5          | 3.3          |
| BMRA000606154R7MA1 | 4.7             | 20             | 100                  | 105         | 4.5          | 3.2          |
| BMRA000606156R8MA1 | 6.8             | 20             | 100                  | 140         | 4.0          | 2.5          |

**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
- Absolute maximum voltage 30VDC
- Measure Equipment :  
L : WK 3260B or WK 6500P, 100kHz 0.5V  
RDC : CHEN HWA 502 or CHEN HWA 46502B

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



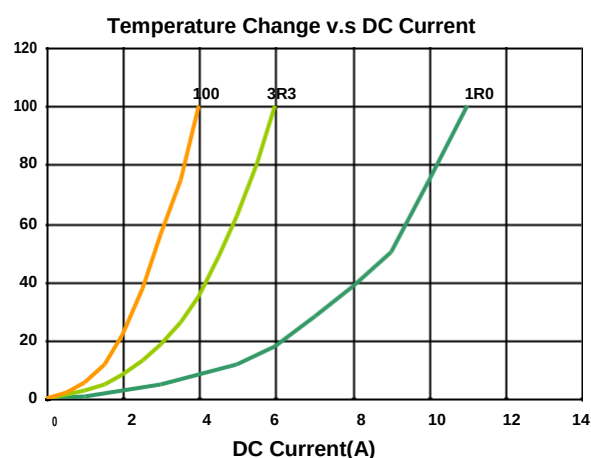
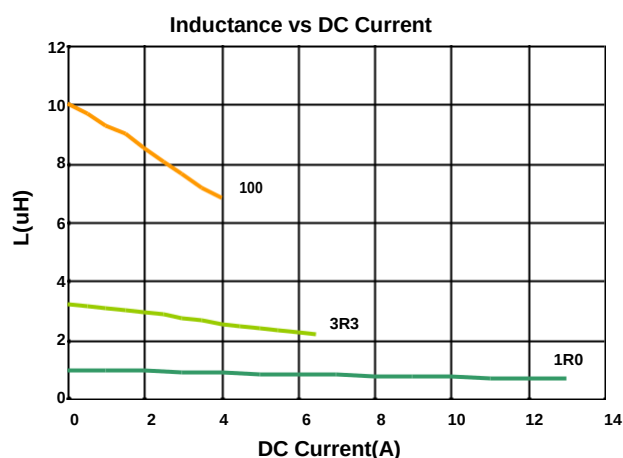
## Electrical Characteristics

| Part Number        | Inductance (uH) | Tolerance (±%) | Test Frequency (kHz) | RDC (mΩ)Max | Isat (A)Typ. | Irms (A)Typ. |
|--------------------|-----------------|----------------|----------------------|-------------|--------------|--------------|
| BMRB000606151R0MA1 | 1.0             | 20             | 100                  | 21          | 9.0          | 5.5          |
| BMRB000606153R3MA1 | 3.3             | 20             | 100                  | 63          | 5.5          | 3.3          |
| BMRB00060615100MA1 | 10              | 20             | 100                  | 175         | 3.0          | 2.0          |

**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
- Absolute maximum voltage 30VDC
- Measure Equipment :  
L : WK 3260B or WK 6500P, 100kHz 0.5V  
RDC : CHEN HWA 502 or CHEN HWA 46502B

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





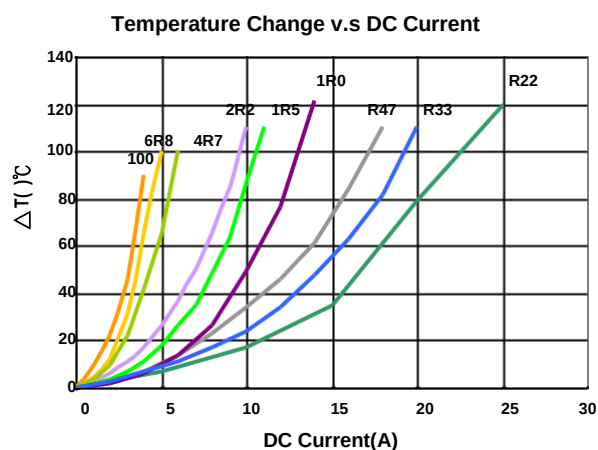
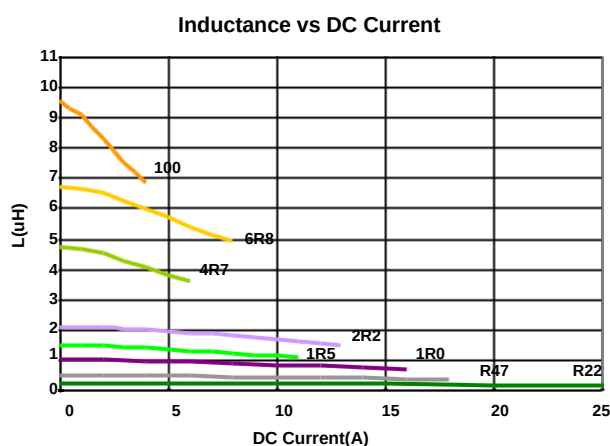
## Electrical Characteristics

| Part Number        | Inductance (uH) | Tolerance (±%) | Test Frequency (kHz) | RDC (mΩ)Max | Isat (A)Typ. | Irms (A)Typ. |
|--------------------|-----------------|----------------|----------------------|-------------|--------------|--------------|
| BMRB00060618R22MA1 | 0.22            | 20             | 100                  | 5.2         | 29           | 14           |
| BMRB00060618R33MA1 | 0.33            | 20             | 100                  | 6.8         | 22           | 12           |
| BMRB00060618R47MA1 | 0.47            | 20             | 100                  | 8.4         | 18           | 11           |
| BMRB00060618R68MA1 | 0.68            | 20             | 100                  | 12.7        | 17           | 9            |
| BMRB000606181R0MA1 | 1.0             | 20             | 100                  | 17          | 14           | 7            |
| BMRB000606181R5MA1 | 1.5             | 20             | 100                  | 26          | 12           | 6.5          |
| BMRB000606182R2MA1 | 2.2             | 20             | 100                  | 35          | 10           | 6.0          |
| BMRB000606184R7MA1 | 4.7             | 20             | 100                  | 70          | 5            | 3.5          |
| BMRB000606186R8MA1 | 6.8             | 20             | 100                  | 110         | 3.5          | 2.8          |
| BMRB00060618100MA1 | 10              | 20             | 100                  | 155         | 2.5          | 2.3          |

**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
- Absolute maximum voltage 30VDC
- Measure Equipment :  
L : WK 3260B or WK 6500P, 100kHz 0.5V  
RDC : CHEN HWA 502 or CHEN HWA 46502B

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



partment before ordering.

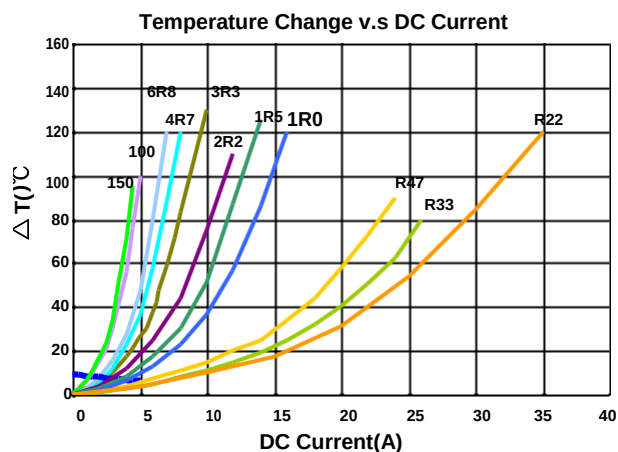
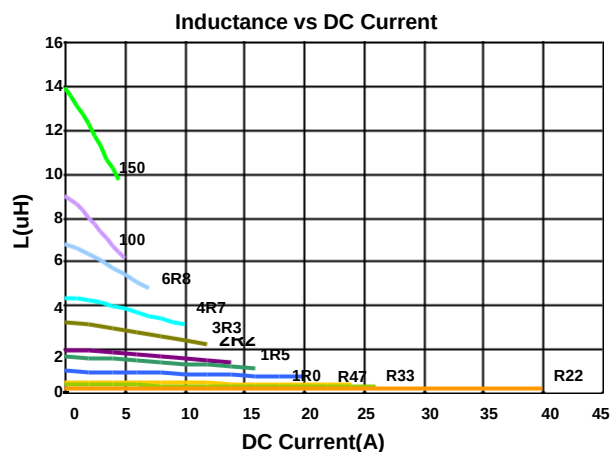
## Electrical Characteristics

| Part Number        | Inductance (uH) | Tolerance (±%) | Test Frequency (kHz) | RDC (mΩ)Max | Isat (A)Typ. | Irms (A)Typ. |
|--------------------|-----------------|----------------|----------------------|-------------|--------------|--------------|
| BMRB00060624R22MA1 | 0.22            | 20             | 100                  | 3.2         | 34           | 21           |
| BMRB00060624R33MA1 | 0.33            | 20             | 100                  | 4.1         | 24.5         | 18           |
| BMRB00060624R47MA1 | 0.47            | 20             | 100                  | 5.1         | 22           | 15           |
| BMRB000606241R0MA1 | 1.0             | 20             | 100                  | 13.5        | 16           | 9            |
| BMRB000606241R5MA1 | 1.5             | 20             | 100                  | 20          | 15           | 9            |
| BMRB000606242R2MA1 | 2.2             | 20             | 100                  | 28          | 11           | 7            |
| BMRB000606243R3MA1 | 3.3             | 20             | 100                  | 39          | 10           | 5.5          |
| BMRB000606244R7MA1 | 4.7             | 20             | 100                  | 50          | 10           | 5.0          |
| BMRB000606246R8MA1 | 6.8             | 20             | 100                  | 70          | 6.0          | 4.0          |
| BMRB00060624100MA1 | 10              | 20             | 100                  | 101         | 4.0          | 3.1          |
| BMRB00060624150MA1 | 15              | 20             | 100                  | 160         | 3.3          | 2.5          |

**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
- Absolute maximum voltage 30VDC
- Measure Equipment :  
L : WK 3260B or WK 6500P, 100kHz 0.5V  
RDC : CHEN HWA 502 or CHEN HWA 46502B

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



## Electrical Characteristics

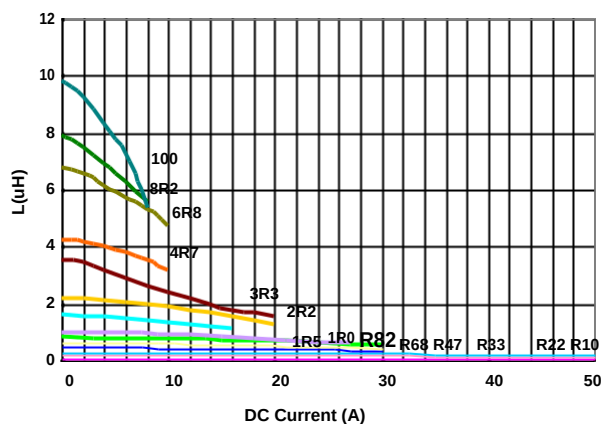
| Part Number         | Inductance (uH) | Tolerance (±%) | Test Frequency (kHz) | RDC (mΩ) Max | Isat (A)Typ. | Irms (A)Typ. |
|---------------------|-----------------|----------------|----------------------|--------------|--------------|--------------|
| BMRA00060630R10MA1  | 0.10            | 20             | 100                  | 1.5          | 45           | 37           |
| BMRA00060630R22MA1  | 0.22            | 20             | 100                  | 2.8          | 40           | 23           |
| BMRA00060630R33MA1  | 0.33            | 20             | 100                  | 4.2          | 33           | 20           |
| BMRA00060630R47MA1  | 0.47            | 20             | 100                  | 5.5          | 27           | 16.5         |
| BMRA00060630R56MA1  | 0.56            | 20             | 100                  | 5.5          | 27           | 16.5         |
| BMRA00060630R68MA1  | 0.68            | 20             | 100                  | 6.3          | 24           | 15           |
| BMRA00060630R82MA1  | 0.82            | 20             | 100                  | 8.0          | 23           | 13           |
| BMRA00060630R10MA1  | 1.0             | 20             | 100                  | 10           | 22           | 12           |
| BMRA00060630R15MA1  | 1.5             | 20             | 100                  | 15           | 18           | 9.5          |
| BMRA00060630R18MA1  | 1.8             | 20             | 100                  | 15           | 14           | 9.5          |
| BMRA00060630R22MA1  | 2.2             | 20             | 100                  | 20           | 14           | 8.5          |
| BMRA00060630R33MA1  | 3.3             | 20             | 100                  | 35           | 12           | 6.0          |
| BMRA00060630R47MA1  | 4.7             | 20             | 100                  | 40           | 9            | 5.5          |
| BMRA00060630R56MA1  | 5.6             | 20             | 100                  | 40           | 8            | 5.5          |
| BMRA00060630R68MA1  | 6.8             | 20             | 100                  | 60           | 8            | 4.5          |
| BMRF00060630R82MA1  | 8.2             | 20             | 100                  | 60           | 6            | 4.5          |
| BMRF00060630R100MA1 | 10              | 20             | 100                  | 68           | 5.5          | 4.0          |
| BMRA00060630R150MA1 | 15              | 20             | 100                  | 122          | 5.0          | 3.0          |
| BMRA00060630R220MA1 | 22              | 20             | 100                  | 145          | 3.2          | 3.0          |
| BMRA00060630R330MA1 | 33              | 20             | 100                  | 270          | 3.0          | 2.0          |

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

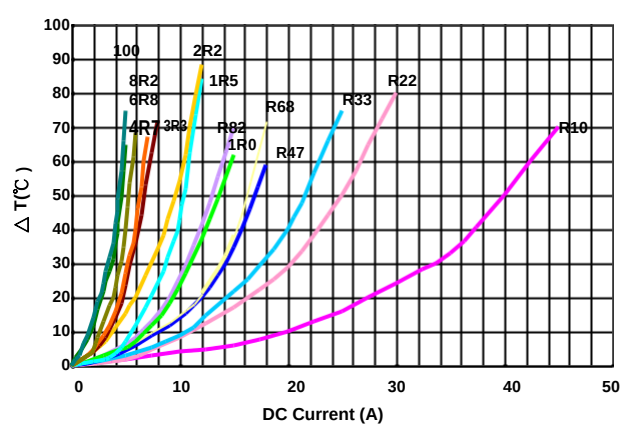
- Operating temperature range - 55°C ~ 125°C(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- I rms for a 40°C temperature rise from 25°C ambient with current
- Absolute maximum voltage 30VDC
- Measure Equipment :  
L : WK 3260B or WK 6500P, 100kHz 0.5V  
RDC : CHEN HWA 502 or CHEN HWA 46502B

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

Inductance v.s DC Current



Temperature Change v.s DC Current



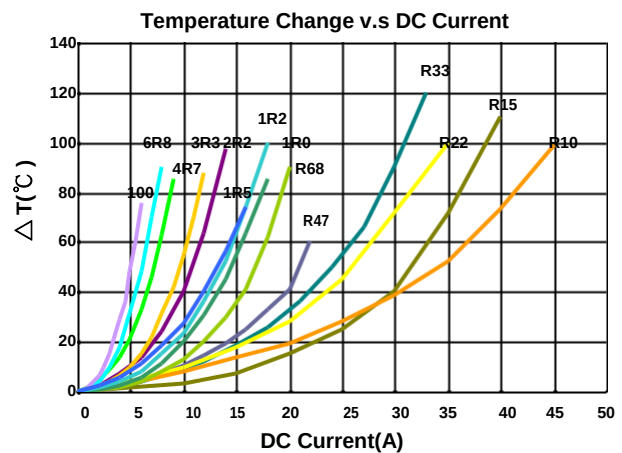
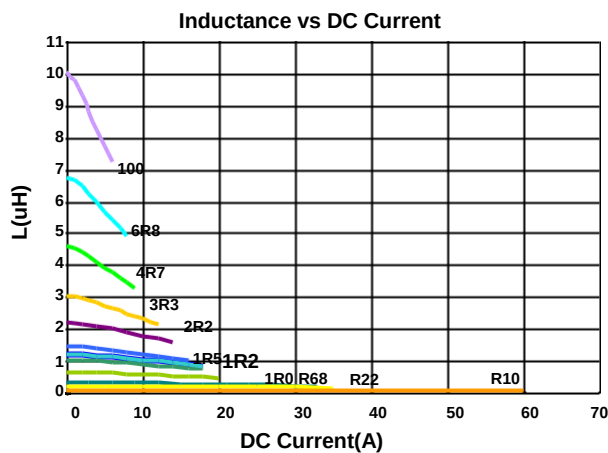
## Electrical Characteristics

| Part Number         | Inductance (uH) | Tolerance (±%) | Test Frequency (kHz) | RDC (mΩ)Max | Isat (A)Typ. | Irms (A)Typ. |
|---------------------|-----------------|----------------|----------------------|-------------|--------------|--------------|
| BMRB00060630R10MA1  | 0.10            | 20             | 100                  | 1.7         | 60           | 32.5         |
| BMRB00060630R15MA1  | 0.15            | 20             | 100                  | 2.5         | 40           | 30           |
| BMRB00060630R22MA1  | 0.22            | 20             | 100                  | 3.0         | 34           | 23           |
| BMRB00060630R33MA1  | 0.33            | 20             | 100                  | 3.5         | 25           | 21           |
| BMRB00060630R36MA1  | 0.36            | 20             | 100                  | 3.9         | 24           | 20           |
| BMRB00060630R47MA1  | 0.47            | 20             | 100                  | 4.1         | 20           | 18           |
| BMRB00060630R56MA1  | 0.56            | 20             | 100                  | 4.5         | 18           | 16.5         |
| BMRB00060630R68MA1  | 0.68            | 20             | 100                  | 5.3         | 17           | 16           |
| BMRB00060630R82MA1  | 0.82            | 20             | 100                  | 6.0         | 16           | 14           |
| BMRB00060630R10MA1  | 1.0             | 20             | 100                  | 7.4         | 15           | 12           |
| BMRB00060630R12MA1  | 1.2             | 20             | 100                  | 10          | 14           | 10           |
| BMRB00060630R15MA1  | 1.5             | 20             | 100                  | 12.1        | 14           | 10           |
| BMRB00060630R22MA1  | 2.2             | 20             | 100                  | 15          | 10           | 8            |
| BMRB00060630R33MA1  | 3.3             | 20             | 100                  | 22          | 9.5          | 6.5          |
| BMRB00060630R47MA1  | 4.7             | 20             | 100                  | 33          | 6.5          | 5.5          |
| BMRB00060630R56MA1  | 5.6             | 20             | 100                  | 42          | 6            | 5.5          |
| BMRB00060630R68MA1  | 6.8             | 20             | 100                  | 50          | 6            | 4.5          |
| BMRB00060630R82MA1  | 8.2             | 20             | 100                  | 60          | 6            | 4.5          |
| BMRB00060630R100MA1 | 10              | 20             | 100                  | 68          | 5.5          | 4            |

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

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- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C temperature rise from 25°C ambient with current
- Absolute maximum voltage 30VDC
- Measure Equipment :  
L : WK 3260B or WK 6500P, 100kHz 0.5V  
RDC : CHEN HWA 502 or CHEN HWA 46502B

Test Instruments : WK3260B Impedance / Material Analyzer



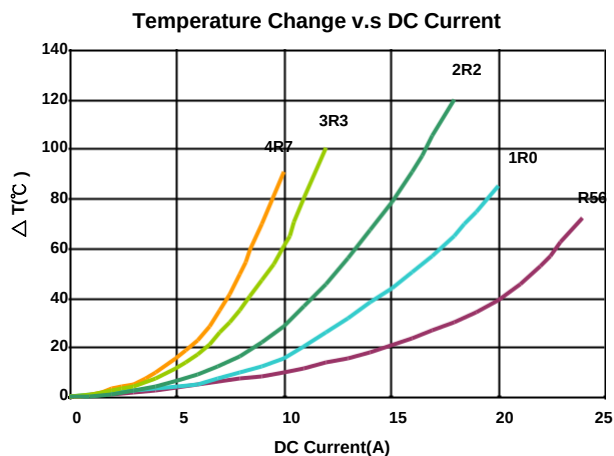
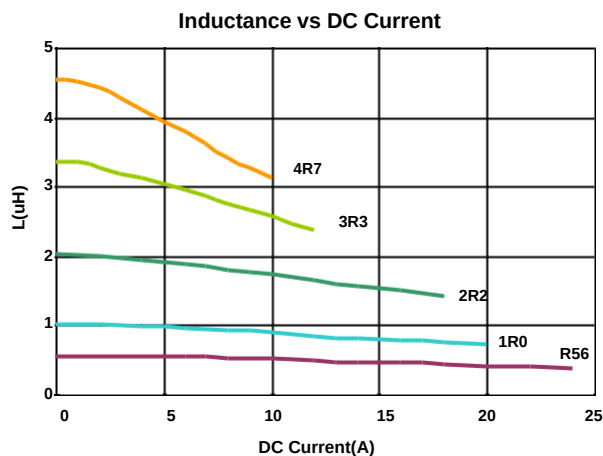
## Electrical Characteristics

| Part Number        | Inductance (uH) | Tolerance (±%) | Test Frequency (kHz) | RDC (mΩ) Max | Isat (A)Typ. | Irms (A)Typ. |
|--------------------|-----------------|----------------|----------------------|--------------|--------------|--------------|
| BMRB00060650R56MA1 | 0.56            | 20             | 100                  | 3.3          | 20           | 20           |
| BMRB000606501R0MA1 | 1.0             | 20             | 100                  | 6.5          | 15           | 13           |
| BMRB000606502R2MA1 | 2.2             | 20             | 100                  | 12.5         | 12           | 8            |
| BMRB000606503R3MA1 | 3.3             | 20             | 100                  | 20.9         | 9            | 7            |
| BMRB000606504R7MA1 | 4.7             | 20             | 100                  | 25.0         | 7            | 6.5          |

**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
- Absolute maximum voltage 30VDC
- Measure Equipment :  
L : WK 3260B or WK 6500P, 100kHz 0.5V  
RDC : CHEN HWA 502 or CHEN HWA 46502B

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



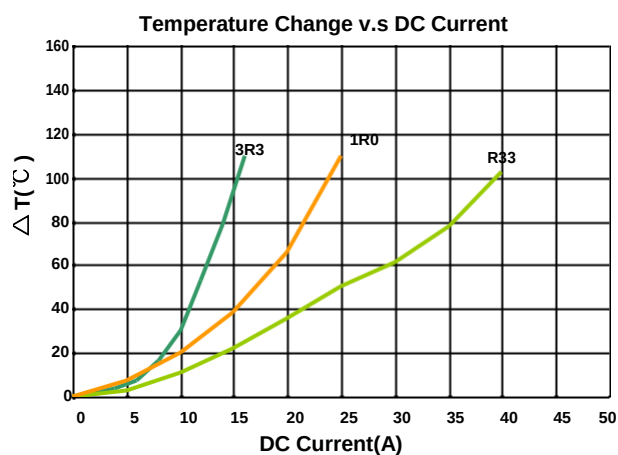
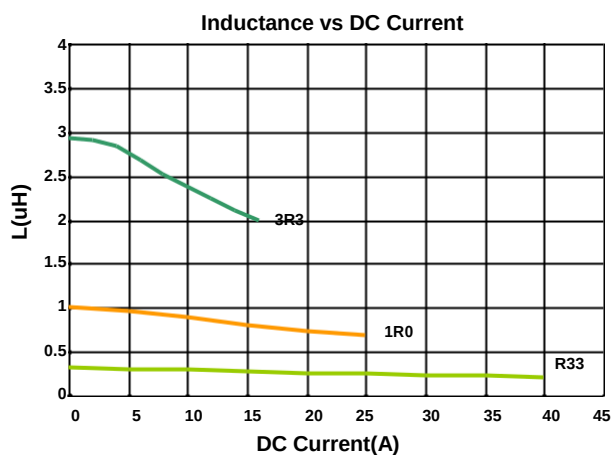
## Electrical Characteristics

| Part Number        | Inductance (uH) | Tolerance (±%) | Test Frequency (kHz) | RDC (mΩ) Max | Isat (A)Typ. | Irms (A)Typ. |
|--------------------|-----------------|----------------|----------------------|--------------|--------------|--------------|
| BMRG00101030R33MD1 | 0.33            | 20             | 100                  | 1.6          | 32           | 23           |
| BMRG001010301R0MD1 | 1.0             | 20             | 100                  | 6.0          | 21           | 15           |
| BMRG001010303R3MA1 | 3.3             | 20             | 100                  | 16.0         | 14           | 9            |

**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
- Absolute maximum voltage 30VDC
- Measure Equipment :  
L : WK 3260B or WK 6500P, 100kHz 0.5V  
RDC : CHEN HWA 502 or CHEN HWA 46502B

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



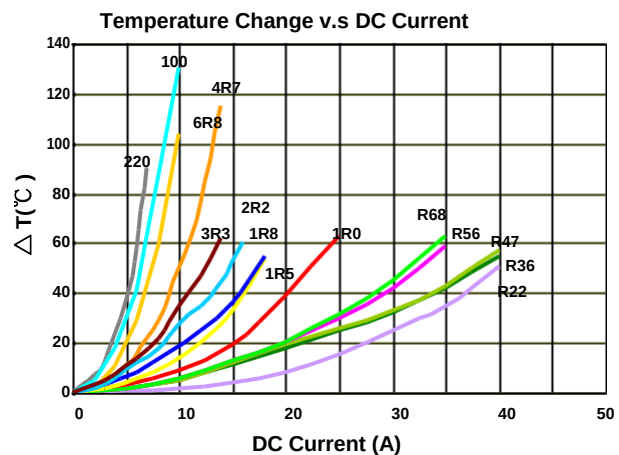
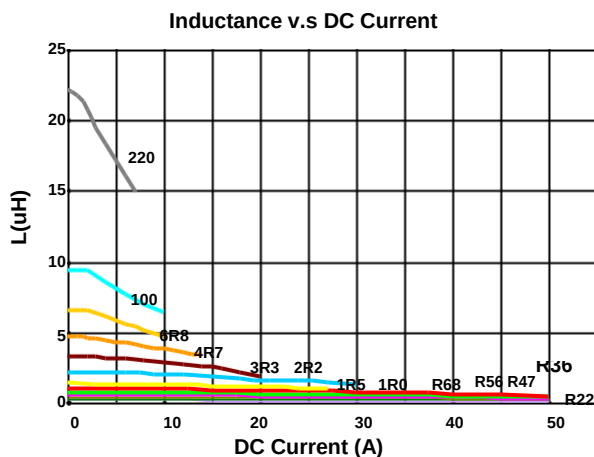
## Electrical Characteristics

| Part Number        | Inductance (uH) | Tolerance (±%) | Test Frequency (kHz) | RDC (mΩ) Max | Isat (A)Typ. | Irms (A)Typ. |
|--------------------|-----------------|----------------|----------------------|--------------|--------------|--------------|
| BMRF00101040R22MD1 | 0.22            | 20             | 100                  | 0.6          | 45           | 35           |
| BMRF00101040R36MD1 | 0.36            | 20             | 100                  | 1.2          | 42           | 34           |
| BMRF00101040R45MD1 | 0.45            | 20             | 100                  | 1.2          | 38           | 33           |
| BMRF00101040R47MD1 | 0.47            | 20             | 100                  | 1.2          | 38           | 33           |
| BMRF00101040R56MD1 | 0.56            | 20             | 100                  | 1.55         | 32           | 27           |
| BMRF00101040R68MD1 | 0.68            | 20             | 100                  | 1.55         | 30           | 27           |
| BMRF00101040R90MD1 | 0.9             | 20             | 100                  | 3.0          | 20           | 22           |
| BMRF001010401R0MD1 | 1.0             | 20             | 100                  | 3.1          | 26           | 20           |
| BMRF001010401R5MD1 | 1.5             | 20             | 100                  | 4.2          | 22           | 16           |
| BMRF001010401R8MD1 | 1.8             | 20             | 100                  | 5            | 16           | 15.3         |
| BMRF001010402R2MD1 | 2.2             | 20             | 100                  | 7            | 16           | 14           |
| BMRF001010403R3MA1 | 3.3             | 20             | 100                  | 13.2         | 12           | 11           |
| BMRF001010404R7MA1 | 4.7             | 20             | 100                  | 16.5         | 12           | 9            |
| BMRF001010406R8MA1 | 6.8             | 20             | 100                  | 25           | 10           | 6            |
| BMRF001010408R2MA1 | 8.2             | 20             | 100                  | 30           | 9            | 6            |
| BMRF00101040100MA1 | 10              | 20             | 100                  | 30           | 7            | 6.5          |
| BMRF00101040150MA1 | 15              | 20             | 100                  | 45           | 6            | 6.25         |
| BMRF00101040220MA1 | 22              | 20             | 100                  | 64           | 4.5          | 4.5          |

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

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- Isat for Inductance drop 30% from its value without current
- I rms for a 40°C temperature rise from 25°C ambient with current
- Absolute maximum voltage 30VDC
- Measure Equipment :  
L : WK 3260B or WK 6500P, 100kHz 0.5V  
RDC : CHEN HWA 502 or CHEN HWA 46502B

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



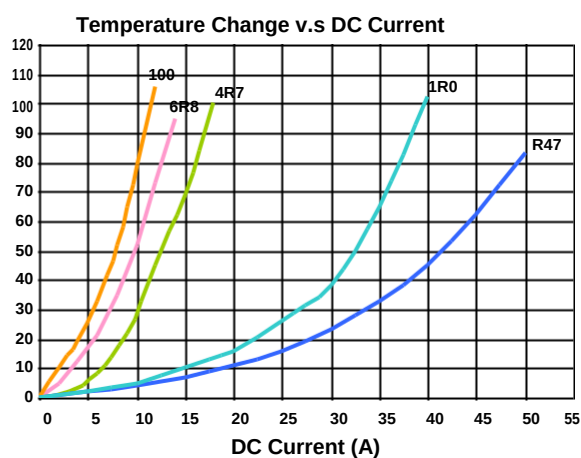
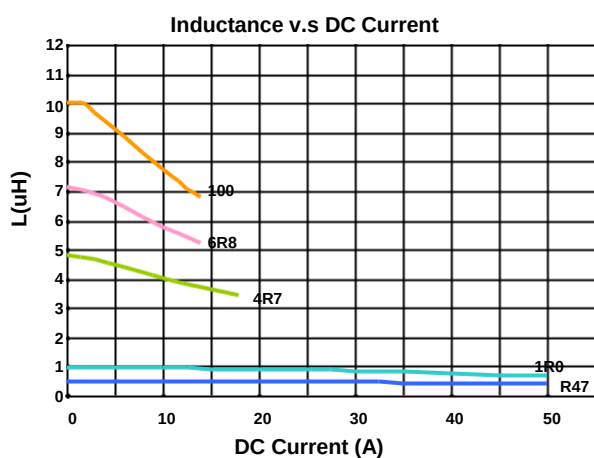
## Electrical Characteristics

| Part Number        | Inductance (uH) | Tolerance (±%) | Test Frequency (kHz) | RDC (mΩ) Max | Isat (A)Typ. | Irms (A)Typ. |
|--------------------|-----------------|----------------|----------------------|--------------|--------------|--------------|
| BMRF00131350R47MD1 | 0.47            | 20             | 100                  | 1.2          | 46           | 37           |
| BMRF001313501R0MD1 | 1.0             | 20             | 100                  | 2.5          | 37           | 29           |
| BMRF001313501R5MD1 | 1.5             | 20             | 100                  | 3.0          | 28           | 28           |
| BMRF001313504R7MD1 | 4.7             | 20             | 100                  | 11.5         | 16           | 11           |
| BMRF001313506R8MA1 | 6.8             | 20             | 100                  | 22           | 14           | 9            |
| BMRF00131350100MA1 | 10              | 20             | 100                  | 35           | 13           | 7            |

**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
- Absolute maximum voltage 30VDC
- Measure Equipment :  
L : WK 3260B or WK 6500P, 100kHz 0.5V  
RDC : CHEN HWA 502 or CHEN HWA 46502B

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





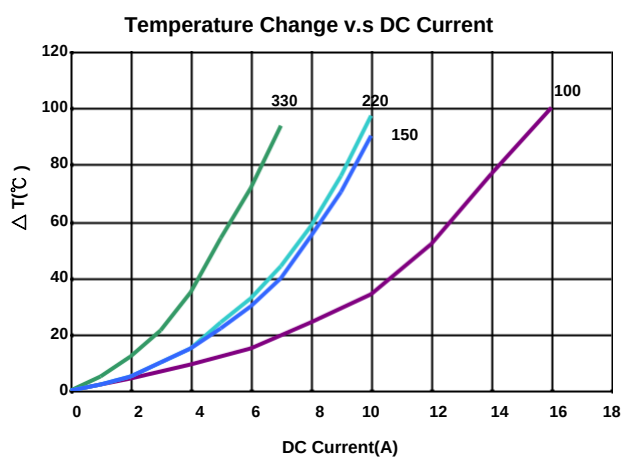
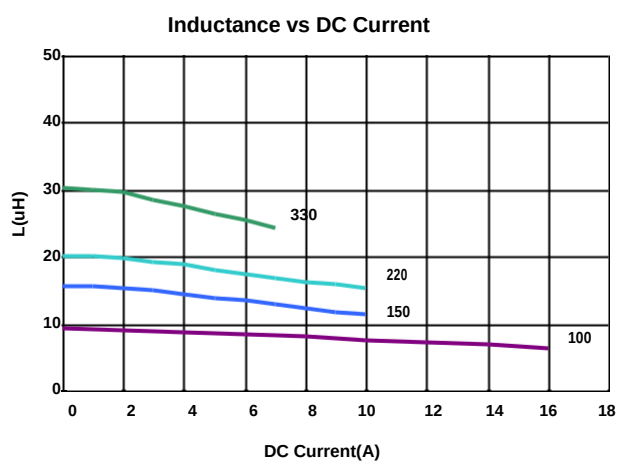
## Electrical Characteristics

| Part Number        | Inductance<br>( $\mu\text{H}$ ) | Tolerance<br>( $\pm\%$ ) | Test<br>Frequency<br>(kHz) | RDC<br>( $\text{m}\Omega$ ) Max | Isat<br>(A)Typ. | Irms<br>(A)Typ. |
|--------------------|---------------------------------|--------------------------|----------------------------|---------------------------------|-----------------|-----------------|
| BMRG00131360100MA1 | 10                              | 20                       | 100                        | 20.7                            | 12.5            | 10              |
| BMRG00131360150MA1 | 15                              | 20                       | 100                        | 29.0                            | 9.0             | 6.0             |
| BMRG00131360220MA1 | 22                              | 20                       | 100                        | 39.5                            | 7.5             | 5.0             |
| BMRG00131360330MA1 | 33                              | 20                       | 100                        | 75                              | 6.0             | 4.0             |

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

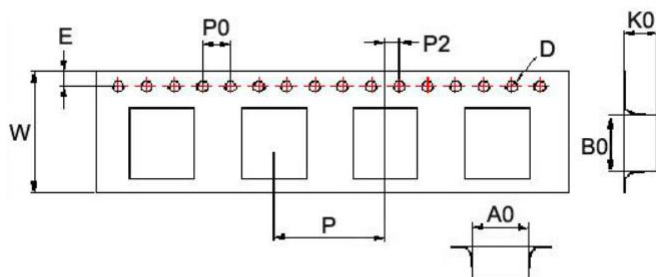
- Operating temperature range -  $55^{\circ}\text{C} \sim 125^{\circ}\text{C}$ (Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a  $40^{\circ}\text{C}$  temperature rise from  $25^{\circ}\text{C}$  ambient with current
- Absolute maximum voltage 30VDC
- Measure Equipment :  
L : WK 3260B or WK 6500P, 100kHz 0.5V  
RDC : CHEN HWA 502 or CHEN HWA 46502B

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

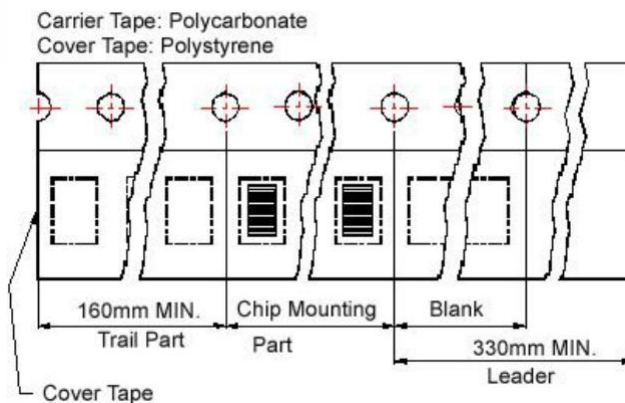


## Packaging Specifications

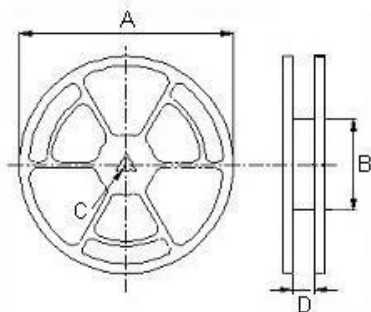
### Tape Dimensions



### Tape Material



### Reel Dimensions



### Dimensions in mm

| TYPE           | Tape Dimensions |      |      |      |      |    |    |    |    | A   | Reel Dimensions |    |      |            | Quantity |
|----------------|-----------------|------|------|------|------|----|----|----|----|-----|-----------------|----|------|------------|----------|
|                | A0              | B0   | K0   | D    | E    | W  | P  | P0 | P2 |     | B               | C  | D    | PCS / REEL |          |
| BMRA00040412   | 4.6             | 5.0  | 1.5  | 1.55 | 1.75 | 12 | 8  | 4  | 2  | 330 | 100             | 13 | 13.4 | 2000       |          |
| BMRA00040415   | 4.4             | 4.9  | 1.8  | 1.55 | 1.75 | 12 | 8  | 4  | 2  | 330 | 100             | 13 | 13.4 | 2000       |          |
| BMRA00040420   | 4.3             | 4.9  | 2.4  | 1.55 | 1.75 | 12 | 8  | 4  | 2  | 330 | 100             | 13 | 13.4 | 2000       |          |
| BMRB00050512   | 5.9             | 6.2  | 1.5  | 1.55 | 1.75 | 16 | 12 | 4  | 2  | 330 | 100             | 13 | 16.0 | 1000       |          |
| BMRx00050515   | 5.7             | 6.1  | 1.9  | 1.55 | 1.75 | 16 | 12 | 4  | 2  | 330 | 100             | 13 | 16.0 | 1000       |          |
| BMRB00050518-B | 5.5             | 6.0  | 2.2  | 1.55 | 1.75 | 12 | 8  | 4  | 2  | 330 | 100             | 13 | 13.4 | 1000       |          |
| BMRB00050518   | 5.9             | 6.2  | 2.2  | 1.55 | 1.75 | 16 | 12 | 4  | 2  | 330 | 100             | 13 | 16.0 | 1000       |          |
| BMRA00050520   | 5.7             | 5.9  | 2.4  | 1.55 | 1.75 | 16 | 12 | 4  | 2  | 330 | 100             | 13 | 16.0 | 1000       |          |
| BMRA00050530   | 5.9             | 6.2  | 3.4  | 1.55 | 1.75 | 16 | 12 | 4  | 2  | 330 | 100             | 13 | 16.0 | 1000       |          |
| BMRB00060612   | 6.9             | 7.6  | 1.6  | 1.55 | 1.75 | 16 | 12 | 4  | 2  | 330 | 100             | 13 | 16.0 | 1000       |          |
| BMRx00060615   | 6.9             | 7.6  | 2.1  | 1.55 | 1.75 | 16 | 12 | 4  | 2  | 330 | 100             | 13 | 16.0 | 1000       |          |
| BMRB00060618   | 6.9             | 7.6  | 2.1  | 1.55 | 1.75 | 16 | 12 | 4  | 2  | 330 | 100             | 13 | 16.0 | 1000       |          |
| BMRB00060624   | 7.0             | 7.6  | 2.7  | 1.55 | 1.75 | 16 | 12 | 4  | 2  | 330 | 100             | 13 | 16.0 | 1000       |          |
| BMRx00060630   | 6.9             | 7.6  | 3.4  | 1.55 | 1.75 | 16 | 12 | 4  | 2  | 330 | 100             | 13 | 16.0 | 1000       |          |
| BMRB00060650   | 6.9             | 7.6  | 5.4  | 1.55 | 1.75 | 16 | 12 | 4  | 2  | 330 | 100             | 13 | 16.0 | 1000       |          |
| BMRG00101030   | 10.6            | 11.7 | 3.25 | 1.55 | 1.75 | 24 | 16 | 4  | 2  | 330 | 100             | 13 | 24.4 | 500        |          |
| BMRF00101040   | 10.6            | 11.7 | 4.25 | 1.55 | 1.75 | 24 | 16 | 4  | 2  | 330 | 100             | 13 | 24.4 | 500        |          |
| BMRF00131350   | 13              | 14   | 5.25 | 1.55 | 1.75 | 24 | 16 | 4  | 2  | 330 | 100             | 13 | 24.4 | 500        |          |
| BMRG00131360   | 13              | 14   | 6.25 | 1.55 | 1.75 | 24 | 16 | 4  | 2  | 330 | 100             | 13 | 24.4 | 500        |          |

# Mouser Electronics

Authorized Distributor

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## Pulse:

|                                    |                                    |                                    |                                    |
|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| <a href="#">BMRA000404121R0MA1</a> | <a href="#">BMRA000404121R5MA1</a> | <a href="#">BMRA000404123R3MA1</a> | <a href="#">BMRA000404124R7MA1</a> |
| <a href="#">BMRA00040412R22MA1</a> | <a href="#">BMRA00040412R33MA1</a> | <a href="#">BMRA00040412R47MA1</a> | <a href="#">BMRA00040412R68MA1</a> |
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| <a href="#">BMRA000404154R7MA1</a> | <a href="#">BMRA000404206R8MA1</a> | <a href="#">BMRA000404208R2MA1</a> | <a href="#">BMRA00040420R10MA1</a> |
| <a href="#">BMRA00040420R22MA1</a> | <a href="#">BMRA00040420R56MA1</a> | <a href="#">BMRA00040420R68MA1</a> | <a href="#">BMRA000505124R7MB1</a> |
| <a href="#">BMRA000505126R8MB1</a> | <a href="#">BMRA00050515100MA1</a> | <a href="#">BMRA000505151R5MA1</a> | <a href="#">BMRA000505152R2MA1</a> |
| <a href="#">BMRA000505153R3MA1</a> | <a href="#">BMRA000505154R7MA1</a> | <a href="#">BMRA000505155R6MA1</a> | <a href="#">BMRA000505156R8MA1</a> |
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