

Type BMC Series

Key Features

Effective EMI protection

Low DC resistance

High soldering heat resistance

Multiple size availability

Other specifications can be made on application



The BMC Series of beads cover a wide range of impedance characteristics. The chip beads have a monolithic inorganic material construction that minimises the effect of electromagnetic interference. This series is offered in 0402, 0603, 0805, 1204 and 1210 package sizes

Characteristics – Electrical

Applications

Cellular Phones

Computers and Peripheral Equipment

Automation Controls

Sensors

VCRS, Television, Pagers

Circuit Where a Stable Ground is Unavailable

Electrical Specifications

For General Signal Line Use (AN)

BMC 0201 AN

| Part No. | Impedance (Ω) | Tolerance | TestFreq. (MHz) | DCR (Ω)max. | Rated Current (mA)max. at 85°C |
|--------------|------------------------|-----------|-----------------|----------------------|--------------------------------|
| BMC1HY0010AN | 10 | ±25% | 100 | 0.10 | 500 |
| BMC1HY0030AN | 30 | ±25% | 100 | 0.30 | 300 |
| BMC1HY0033AN | 33 | ±25% | 100 | 0.30 | 300 |
| BMC1HY0040AN | 40 | ±25% | 100 | 0.30 | 300 |
| BMC1HY0050AN | 50 | ±25% | 100 | 0.30 | 300 |
| BMC1HY0060AN | 60 | ±25% | 100 | 0.35 | 300 |
| BMC1HY0070AN | 70 | ±25% | 100 | 0.35 | 300 |
| BMC1HY0100AN | 100 | ±25% | 100 | 0.40 | 200 |
| BMC1HY0120AN | 120 | ±25% | 100 | 0.45 | 200 |
| BMC1HY0150AN | 150 | ±25% | 100 | 0.50 | 200 |
| BMC1HY0220AN | 220 | ±25% | 100 | 0.75 | 200 |
| BMC1HY0300AN | 300 | ±25% | 100 | 0.90 | 150 |

BMC 0402 AN

| Part No. | Impedance (Ω) | Tolerance | TestFreq. (MHz) | DCR (Ω)max. | Rated Current (mA)max. at 85°C |
|--------------|---------------|-----------|-----------------|-------------|--------------------------------|
| BMC1EY0010AN | 10 | ±25% | 100 | 0.05 | 500 |
| BMC1EY0030AN | 30 | ±25% | 100 | 0.20 | 300 |
| BMC1EY0040AN | 40 | ±25% | 100 | 0.20 | 300 |
| BMC1EY0060AN | 60 | ±25% | 100 | 0.40 | 200 |
| BMC1EY0068AN | 68 | ±25% | 100 | 0.15 | 500 |
| BMC1EY0070AN | 70 | ±25% | 100 | 0.40 | 200 |
| BMC1EY0080AN | 80 | ±25% | 100 | 0.40 | 200 |
| BMC1EY0100AN | 100 | ±25% | 100 | 0.45 | 200 |
| BMC1EY0120AN | 120 | ±25% | 100 | 0.50 | 200 |
| BMC1EY0150AN | 150 | ±25% | 100 | 0.60 | 200 |
| BMC1EY0180AN | 180 | ±25% | 100 | 0.65 | 100 |
| BMC1EY0220AN | 220 | ±25% | 100 | 0.28 | 700 |
| BMC1EY0240AN | 240 | ±25% | 100 | 0.30 | 500 |
| BMC1EY0300AN | 300 | ±25% | 100 | 0.75 | 100 |
| BMC1EY0330AN | 330 | ±25% | 100 | 0.75 | 100 |
| BMC1EY0430AN | 430 | ±25% | 100 | 0.50 | 350 |
| BMC1EY0470AN | 470 | ±25% | 100 | 0.90 | 100 |
| BMC1EY0500AN | 500 | ±25% | 100 | 1.00 | 100 |
| BMC1EY0600AN | 600 | ±25% | 100 | 1.10 | 50 |
| BMC1EY1000AN | 1000 | ±25% | 100 | 1.50 | 50 |

BMC 0603 AN

| Part No. | Impedance (Ω) | Tolerance | TestFreq. (MHz) | DCR (Ω)max. | Rated Current (mA)max. at 85°C |
|--------------|---------------|-----------|-----------------|-------------|--------------------------------|
| BMC1JY0019AN | 19 | ±25% | 100 | 0.10 | 400 |
| BMC1JY0031AN | 31 | ±25% | 100 | 0.10 | 400 |
| BMC1JY0052AN | 52 | ±25% | 100 | 0.15 | 400 |
| BMC1JY0060AN | 60 | ±25% | 100 | 0.15 | 400 |
| BMC1JY0075AN | 75 | ±25% | 100 | 0.15 | 400 |
| BMC1JY0080AN | 80 | ±25% | 100 | 0.15 | 400 |
| BMC1JY0100AN | 100 | ±25% | 100 | 0.15 | 400 |
| BMC1JY0120AN | 120 | ±25% | 100 | 0.15 | 400 |
| BMC1JY0150AN | 150 | ±25% | 100 | 0.15 | 400 |
| BMC1JY0180AN | 180 | ±25% | 100 | 0.20 | 400 |
| BMC1JY0200AN | 200 | ±25% | 100 | 0.20 | 400 |
| BMC1JY0220AN | 220 | ±25% | 100 | 0.20 | 400 |
| BMC1JY0240AN | 240 | ±25% | 100 | 0.17 | 500 |
| BMC1JY0300AN | 300 | ±25% | 100 | 0.2 | 600 |
| BMC1JY0400AN | 400 | ±25% | 100 | 0.30 | 400 |
| BMC1JY0420AN | 420 | ±25% | 100 | 0.30 | 400 |

BMC 0603 AN (continued)

| Part No. | Impedance (Ω) | Tolerance | TestFreq. (MHz) | DCR (Ω)max. | Rated Current (mA)max. at 85°C |
|---------------|---------------|-----------|-----------------|-------------|--------------------------------|
| BMC1JY0450AN | 450 | ±25% | 100 | 0.30 | 400 |
| BMC1JY0600AN | 600 | ±25% | 100 | 0.35 | 400 |
| BMC1JY0750AN | 750 | ±25% | 100 | 0.35 | 400 |
| BMC1JY1000AN | 1000 | ±25% | 100 | 0.55 | 300 |
| BMC1JY1000AN1 | 1000 | ±25% | 100 | 0.25 | 800 |
| BMC1JY1500AN | 1500 | ±25% | 100 | 0.60 | 200 |

BMC 0805 AN

| Part No. | Impedance (Ω) | Tolerance | TestFreq. (MHz) | DCR (Ω)max. | Rated Current (mA)max. at 85°C |
|--------------|---------------|-----------|-----------------|-------------|--------------------------------|
| BMC2AY0017AN | 17 | ±25% | 100 | 0.10 | 300 |
| BMC2AY0026AN | 26 | ±25% | 100 | 0.10 | 300 |
| BMC2AY0030AN | 30 | ±25% | 100 | 0.10 | 300 |
| BMC2AY0031AN | 31 | ±25% | 100 | 0.10 | 300 |
| BMC2AY0052AN | 52 | ±25% | 100 | 0.15 | 300 |
| BMC2AY0060AN | 60 | ±25% | 100 | 0.15 | 300 |
| BMC2AY0080AN | 80 | ±25% | 100 | 0.15 | 300 |
| BMC2AY0100AN | 100 | ±25% | 100 | 0.20 | 300 |
| BMC2AY0120AN | 120 | ±25% | 100 | 0.20 | 300 |
| BMC2AY0150AN | 150 | ±25% | 100 | 0.20 | 300 |
| BMC2AY0220AN | 220 | ±25% | 100 | 0.25 | 300 |
| BMC2AY0300AN | 300 | ±25% | 100 | 0.25 | 300 |
| BMC2AY0400AN | 400 | ±25% | 100 | 0.30 | 300 |
| BMC2AY0470AN | 470 | ±25% | 100 | 0.18 | 700 |
| BMC2AY0530AN | 530 | ±25% | 100 | 0.35 | 300 |
| BMC2AY0600AN | 600 | ±25% | 100 | 0.35 | 300 |
| BMC2AY1000AN | 1000 | ±25% | 100 | 0.45 | 300 |
| BMC2AY1500AN | 1500 | ±25% | 100 | 0.70 | 300 |

BMC 1204 AN

| Part No. | Impedance (Ω) | Tolerance | TestFreq. (MHz) | DCR (Ω)max. | Rated Current (mA)max. at 85°C |
|--------------|---------------|-----------|-----------------|-------------|--------------------------------|
| BMC2CY0019AN | 19 | ±25% | 100 | 0.10 | 800 |
| BMC2CY0026AN | 26 | ±25% | 100 | 0.10 | 800 |
| BMC2CY0031AN | 31 | ±25% | 100 | 0.10 | 800 |
| BMC2CY0052AN | 52 | ±25% | 100 | 0.15 | 800 |

BMC 1204 AN (continued)

| Part No. | Impedance (Ω) | Tolerance | TestFreq. (MHz) | DCR (Ω)max. | Rated Current (mA)max. at 85°C |
|--------------|---------------|-----------|-----------------|-------------|--------------------------------|
| BMC2CY0060AN | 60 | ±25% | 100 | 0.15 | 500 |
| BMC2CY0070AN | 70 | ±25% | 100 | 0.15 | 500 |
| BMC2CY0100AN | 100 | ±25% | 100 | 0.20 | 450 |
| BMC2CY0120AN | 120 | ±25% | 100 | 0.20 | 450 |
| BMC2CY0150AN | 150 | ±25% | 100 | 0.20 | 450 |
| BMC2CY0220AN | 220 | ±25% | 100 | 0.20 | 350 |
| BMC2CY0300AN | 300 | ±25% | 100 | 0.20 | 350 |
| BMC2CY0400AN | 400 | ±25% | 100 | 0.25 | 350 |
| BMC2CY0600AN | 600 | ±25% | 100 | 0.25 | 350 |
| BMC2CY0750AN | 750 | ±25% | 100 | 0.30 | 350 |
| BMC2CY0800AN | 800 | ±25% | 100 | 0.30 | 350 |
| BMC2CY1000AN | 1000 | ±25% | 100 | 0.35 | 350 |
| BMC2CY1200AN | 1200 | ±25% | 100 | 0.35 | 350 |

BMC 1210 AN

| Part No. | Impedance (Ω) | Tolerance | TestFreq. (MHz) | DCR (Ω)max. | Rated Current (mA)max. at 85°C |
|--------------|---------------|-----------|-----------------|-------------|--------------------------------|
| BMC2EY0031AN | 31 | ±25% | 100 | 0.10 | 500 |
| BMC2EY0052AN | 52 | ±25% | 100 | 0.30 | 400 |
| BMC2EY0060AN | 60 | ±25% | 100 | 0.30 | 400 |

Electrical Specifications**For General Signal Line, Frequency Higher Than A Use (KN)****BMC 0402 KN**

| Part No. | Impedance (Ω) | Tolerance | TestFreq. (MHz) | DCR (Ω)max. | Rated Current (mA)max. at 85°C |
|--------------|---------------|-----------|-----------------|-------------|--------------------------------|
| BMC1EY0220KN | 220 | ±25% | 100 | 0.80 | 100 |
| BMC1EY0300KN | 300 | ±25% | 100 | 0.85 | 100 |

BMC 0603 KN

| Part No. | Impedance (Ω) | Tolerance | TestFreq. (MHz) | DCR (Ω)max. | Rated Current (mA)max. at 85°C |
|--------------|---------------|-----------|-----------------|-------------|--------------------------------|
| BMC1JY1000KN | 1000 | ±25% | 100 | 0.85 | 100 |
| BMC1JY1200KN | 1200 | ±25% | 100 | 0.85 | 100 |
| BMC1JY1500KN | 1500 | ±25% | 100 | 0.90 | 100 |
| BMC1JY1800KN | 1800 | ±25% | 100 | 1.00 | 100 |
| BMC1JY2000KN | 2000 | ±25% | 100 | 1.00 | 100 |
| BMC1JY2500KN | 2500 | ±25% | 100 | 1.00 | 50 |

BMC 0805 KN

| Part No. | Impedance (Ω) | Tolerance | TestFreq. (MHz) | DCR (Ω)max. | Rated Current (mA)max. at 85°C |
|--------------|---------------|-----------|-----------------|-------------|--------------------------------|
| BMC2AY0080KN | 80 | ±25% | 100 | 0.30 | 300 |
| BMC2AY0600KN | 600 | ±25% | 100 | 0.35 | 200 |
| BMC2AY1000KN | 1000 | ±25% | 100 | 0.40 | 200 |
| BMC2AY1200KN | 1200 | ±25% | 100 | 0.40 | 200 |
| BMC2AY1500KN | 1500 | ±25% | 100 | 0.45 | 200 |
| BMC2AY2000KN | 2000 | ±25% | 100 | 0.60 | 200 |
| BMC2AY2200KN | 2200 | ±25% | 100 | 0.60 | 200 |
| BMC2AY2500KN | 2500 | ±25% | 100 | 0.70 | 200 |
| BMC2AY2700KN | 2700 | ±25% | 100 | 0.70 | 200 |

Electrical Specifications**For Medium Current Line Use (AG)****BMC 0402 AG**

| Part No. | Impedance (Ω) | Tolerance | TestFreq. (MHz) | DCR (Ω)max. | Rated Current (mA)max. at 85°C |
|--------------|---------------|-----------|-----------------|-------------|--------------------------------|
| BMC1EY0010AG | 10 | ±25% | 100 | 0.03 | 2000 |
| BMC1EY0030AG | 30 | ±25% | 100 | 0.03 | 3000 |
| BMC1EY0060AG | 60 | ±25% | 100 | 0.075 | 1500 |
| BMC1EY0070AG | 70 | ±25% | 100 | 0.09 | 1200 |
| BMC1EY0100AG | 100 | ±25% | 100 | 0.09 | 1200 |
| BMC1EY0120AG | 120 | ±25% | 100 | 0.075 | 1500 |
| BMC1EY0220AG | 220 | ±25% | 100 | 0.20 | 1000 |

BMC 0603 AG

| Part No. | Impedance (Ω) | Tolerance | TestFreq. (MHz) | DCR (Ω)max. | Rated Current (mA)max. at 85°C |
|--------------|------------------------|-----------|-----------------|----------------------|--------------------------------|
| BMC1JY0022AG | 22 | ±25% | 100 | 0.04 | 3000 |
| BMC1JY0030AG | 30 | ±25% | 100 | 0.04 | 3000 |
| BMC1JY0033AG | 33 | ±25% | 100 | 0.025 | 3000 |
| BMC1JY0047AG | 47 | ±25% | 100 | 0.04 | 3000 |
| BMC1JY0060AG | 60 | ±25% | 100 | 0.04 | 3000 |
| BMC1JY0062AG | 62 | ±25% | 100 | 0.04 | 3000 |
| BMC1JY0100AG | 100 | ±25% | 100 | 0.05 | 3000 |
| BMC1JY0120AG | 120 | ±25% | 100 | 0.05 | 2000 |
| BMC1JY0180AG | 180 | ±25% | 100 | 0.08 | 2000 |
| BMC1JY0220AG | 220 | ±25% | 100 | 0.08 | 2000 |
| BMC1JY0300AG | 300 | ±25% | 100 | 0.15 | 2000 |
| BMC1JY0470AG | 470 | ±25% | 100 | 0.15 | 1500 |
| BMC1JY0600AG | 600 | ±25% | 100 | 0.30 | 1000 |
| BMC1JY0750AG | 750 | ±25% | 100 | 0.30 | 1000 |
| BMC1JY1000AG | 1000 | ±25% | 100 | 0.25 | 1000 |

BMC 0805 AG

| Part No. | Impedance (Ω) | Tolerance | TestFreq. (MHz) | DCR (Ω)max. | Rated Current (mA)max. at 85°C |
|--------------|------------------------|-----------|-----------------|----------------------|--------------------------------|
| BMC2AY0011AG | 11 | ±25% | 100 | 0.03 | 3000 |
| BMC2AY0017AG | 17 | ±25% | 100 | 0.03 | 3000 |
| BMC2AY0030AG | 30 | ±25% | 100 | 0.05 | 3000 |
| BMC2AY0031AG | 31 | ±25% | 100 | 0.03 | 3000 |
| BMC2AY0039AG | 39 | ±25% | 100 | 0.03 | 3000 |
| BMC2AY0040AG | 40 | ±25% | 100 | 0.03 | 3000 |
| BMC2AY0047AG | 47 | ±25% | 100 | 0.03 | 3000 |
| BMC2AY0050AG | 50 | ±25% | 100 | 0.03 | 3000 |
| BMC2AY0052AG | 52 | ±25% | 100 | 0.03 | 3000 |
| BMC2AY0060AG | 60 | ±25% | 100 | 0.04 | 3000 |
| BMC2AY0080AG | 80 | ±25% | 100 | 0.04 | 3000 |
| BMC2AY0100AG | 100 | ±25% | 100 | 0.04 | 3000 |
| BMC2AY0120AG | 120 | ±25% | 100 | 0.05 | 3000 |
| BMC2AY0180AG | 180 | ±25% | 100 | 0.05 | 3000 |
| BMC2AY0220AG | 220 | ±25% | 100 | 0.05 | 3000 |
| BMC2AY0300AG | 300 | ±25% | 100 | 0.05 | 3000 |
| BMC2AY0330AG | 330 | ±25% | 100 | 0.05 | 3000 |
| BMC2AY0470AG | 470 | ±25% | 100 | 0.10 | 2000 |
| BMC2AY0600AG | 600 | ±25% | 100 | 0.10 | 2000 |
| BMC2AY1000AG | 1000 | ±25% | 100 | 0.30 | 1000 |
| BMC2AY1500AG | 1500 | ±25% | 100 | 0.30 | 1000 |

Standard Electrical Specifications

For High Speed Signal Line Use (BN)

BMC 0402 BN

| Part No. | Impedance (Ω) | Tolerance | TestFreq. (MHz) | DCR (Ω)max. | Rated Current (mA)max. at 85°C |
|--------------|---------------|-----------|-----------------|-------------|--------------------------------|
| BMC1EY0470BN | 470 | ±25% | 100 | 1.00 | 100 |
| BMC1EY0600BN | 600 | ±25% | 100 | 1.50 | 50 |

Other impedance values on application

BMC 0603 BN

On Application only

BMC 0805 BN

| Part No. | Impedance (Ω) | Tolerance | TestFreq. (MHz) | DCR (Ω)max. | Rated Current (mA)max. at 85°C |
|--------------|---------------|-----------|-----------------|-------------|--------------------------------|
| BMC2AY1500BN | 1500 | ±25% | 100 | 0.35 | 200 |
| BMC2AY1800BN | 1800 | ±25% | 100 | 0.40 | 200 |
| BMC2AY2000BN | 2000 | ±25% | 100 | 0.40 | 200 |
| BMC2AY2200BN | 2200 | ±25% | 100 | 0.50 | 200 |
| BMC2AY2500BN | 2500 | ±25% | 100 | 0.60 | 200 |
| BMC2AY2700BN | 2700 | ±25% | 100 | 0.60 | 200 |

Other impedance values on application

BMC 1204 BN

On Application only

Standard Electrical Specifications

For Ultra High Speed Signal Line Use (HN)

BMC 0402 HN

| Part No. | Impedance (Ω) | Tolerance | TestFreq. (MHz) | DCR (Ω)max. | Rated Current (mA)max. at 85°C |
|--------------|---------------|-----------|-----------------|-------------|--------------------------------|
| BMC1EY0022HN | 22 | ±25% | 100 | 0.20 | 300 |
| BMC1EY0030HN | 30 | ±25% | 100 | 0.20 | 300 |
| BMC1EY0033HN | 33 | ±25% | 100 | 0.40 | 300 |
| BMC1EY0047HN | 47 | ±25% | 100 | 0.35 | 300 |

BMC 0402 HN (continued)

| Part No. | Impedance (Ω) | Tolerance | TestFreq. (MHz) | DCR (Ω)max. | Rated Current (mA)max. at 85°C |
|---------------|---------------|-----------|-----------------|-------------|--------------------------------|
| BMC1EY0047HN1 | 47 | ±25% | 100 | 0.33 | 350 |
| BMC1EY0060HN | 60 | ±25% | 100 | 0.40 | 300 |
| BMC1EY0075HN | 75 | ±25% | 100 | 0.40 | 300 |
| BMC1EY0100HN | 100 | ±25% | 100 | 0.55 | 300 |
| BMC1EY0120HN | 120 | ±25% | 100 | 0.55 | 300 |
| BMC1EY0220HN | 220 | ±25% | 100 | 0.80 | 200 |
| BMC1EY0300HN | 300 | ±25% | 100 | 1.00 | 100 |

Other impedance values on application

BMC 0603 HN

| Part No. | Impedance (Ω) | Tolerance | TestFreq. (MHz) | DCR (Ω)max. | Rated Current (mA)max. at 85°C |
|---------------|---------------|-----------|-----------------|-------------|--------------------------------|
| BMC1JY0010HN | 10 | ±25% | 100 | 0.10 | 900 |
| BMC1JY0020HN | 20 | ±25% | 100 | 0.20 | 600 |
| BMC1JY0047HN | 47 | ±25% | 100 | 0.30 | 500 |
| BMC1JY0047HN1 | 47 | ±25% | 100 | 0.15 | 600 |
| BMC1JY0120HN | 120 | ±25% | 100 | 0.30 | 300 |
| BMC1JY0300HN | 300 | ±25% | 100 | 0.35 | 300 |
| BMC1JY0600HN | 600 | ±25% | 100 | 0.65 | 300 |
| BMC1JY1000HN | 1000 | ±25% | 100 | 1.10 | 50 |

Other impedance values on application

BMC 0805 HN

| Part No. | Impedance (Ω) | Tolerance | TestFreq. (MHz) | DCR (Ω)max. | Rated Current (mA)max. at 85°C |
|--------------|---------------|-----------|-----------------|-------------|--------------------------------|
| BMC2AY0600HN | 600 | ±25% | 100 | 0.65 | 200 |

Other impedance values on application

Standard Electrical Specifications For High Current Line Use (AH)**BMC 0805 AH**

| Part No. | Impedance (Ω) | Tolerance | TestFreq. (MHz) | DCR (Ω)max. | Rated Current (mA)max. at 85°C |
|--------------|---------------|-----------|-----------------|-------------|--------------------------------|
| BMC2AY0017AH | 17 | ±25% | 100 | 0.008 | 6000 |

BMC 0805 AH (continued)

| Part No. | Impedance (Ω) | Tolerance | TestFreq. (MHz) | DCR (Ω)max. | Rated Current (mA)max. at 85°C |
|---------------|---------------|-----------|-----------------|-------------|--------------------------------|
| BMC2AY0022AH | 22 | ±25% | 100 | 0.008 | 6000 |
| BMC2AY0030AH | 30 | ±25% | 100 | 0.008 | 6000 |
| BMC2AY0030AH1 | 30 | ±25% | 100 | 0.015 | 4000 |
| BMC2AY0033AH | 33 | ±25% | 100 | 0.008 | 6000 |
| BMC2AY0039AH | 39 | ±25% | 100 | 0.008 | 6000 |
| BMC2AY0050AH | 50 | ±25% | 100 | 0.010 | 6000 |
| BMC2AY0060AH | 60 | ±25% | 100 | 0.020 | 6000 |
| BMC2AY0080AH | 80 | ±25% | 100 | 0.020 | 6000 |
| BMC2AY0080AH2 | 80 | ±25% | 100 | 0.010 | 5000 |
| BMC2AY0100AH | 100 | ±25% | 100 | 0.020 | 5000 |
| BMC2AY0100AH1 | 100 | ±25% | 100 | 0.020 | 4000 |
| BMC2AY0120AH | 120 | ±25% | 100 | 0.020 | 4000 |
| BMC2AY0120AH1 | 120 | ±25% | 100 | 0.015 | 5000 |

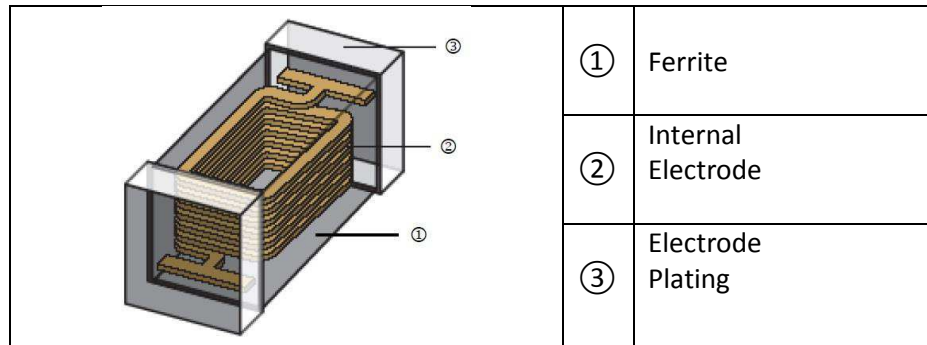
BMC 1204 AH

| Part No. | Impedance (Ω) | Tolerance | TestFreq. (MHz) | DCR (Ω)max. | Rated Current (mA)max. at 85°C |
|---------------|---------------|-----------|-----------------|-------------|--------------------------------|
| BMC2CY0026AH | 26 | ±25% | 100 | 0.006 | 6000 |
| BMC2CY0031AH | 31 | ±25% | 100 | 0.006 | 6000 |
| BMC2CY0033AH | 33 | ±25% | 100 | 0.006 | 6000 |
| BMC2CY0048AH | 48 | ±25% | 100 | 0.008 | 6000 |
| BMC2CY0050AH | 50 | ±25% | 100 | 0.008 | 6000 |
| BMC2CY0052AH | 52 | ±25% | 100 | 0.008 | 6000 |
| BMC2CY0060AH | 60 | ±25% | 100 | 0.020 | 4000 |
| BMC2CY0080AH | 80 | ±25% | 100 | 0.020 | 4000 |
| BMC2CY0120AH | 120 | ±25% | 100 | 0.020 | 4000 |
| BMC2CY0120AH1 | 120 | ±25% | 100 | 0.012 | 6000 |

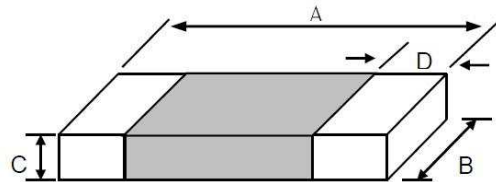
BMC 1210 AH

| Part No. | Impedance (Ω) | Tolerance | TestFreq. (MHz) | DCR (Ω)max. | Rated Current (mA)max. at 85°C |
|--------------|---------------|-----------|-----------------|-------------|--------------------------------|
| BMC2EY0052AH | 52 | ±25% | 100 | 0.008 | 6000 |
| BMC2EY0060AH | 60 | ±25% | 100 | 0.008 | 6000 |

Construction

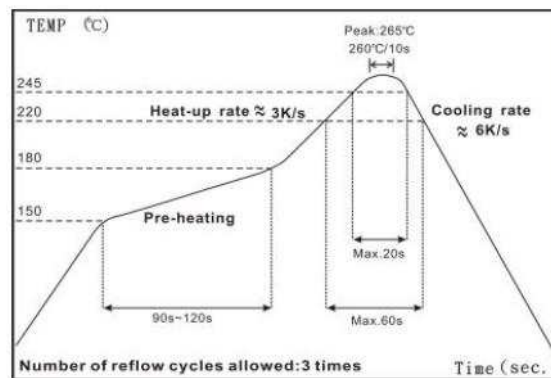


Dimensions



| Type | Size (Inch) | A (mm) | B (mm) | C (mm) | D (mm) | Weight (g) (1000pcs) |
|-------|-------------|----------|-----------|-----------|----------|----------------------|
| BMC1H | 0201 | 0.6±0.03 | 0.30±0.03 | 0.30±0.03 | 0.1~0.2 | 1.1 |
| BMC1E | 0402 | 1.0±0.10 | 0.50±0.10 | 0.5±0.10 | 0.1~0.35 | 2.6 |
| BMC1J | 0603 | 1.6±0.20 | 0.80±0.15 | 0.8±0.15 | 0.1~0.6 | 6.2 |
| BMC2A | 0805 | 2.0±0.20 | 1.25±0.20 | 0.9±0.20 | 0.2~0.8 | 10 |
| BMC2C | 1204 | 3.2±0.20 | 1.60±0.20 | 1.1±0.20 | 0.2~1.0 | 30 |
| BMC2E | 1210 | 3.2±0.20 | 2.50±0.20 | 1.3±0.20 | 0.2~1.0 | 54 |

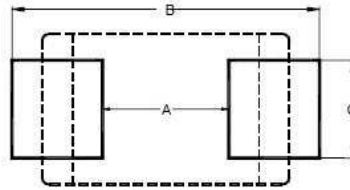
Soldering Condition



Time of IR reflow soldering at maximum temperature point 260°C : 10s

Time of soldering iron at maximum temperature point 280°C : 3s

Recommended PCB layout plan



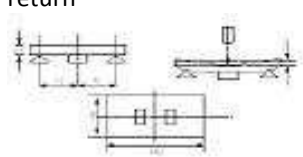
| Type | Size (Inch) | A (mm) | B (mm) | C (mm) |
|-------|-------------|--------|--------|--------|
| BMC1H | 0201 | 0.25 | 0.69 | 0.32 |
| BMC1E | 0402 | 0.50 | 2.10 | 0.55 |
| BMC1J | 0603 | 0.60 | 2.60 | 0.80 |
| BMC2A | 0805 | 0.66 | 3.23 | 1.47 |
| BMC2C | 1204 | 2.20 | 4.40 | 2.06 |
| BMC2E | 1210 | 2.13 | 4.06 | 2.74 |

Environmental Characteristics

Electrical Performance Test

| Item | Specification | Test Methods |
|-----------|-------------------------|--------------------------------|
| Impedance | As per Electrical spec. | HP4286A |
| DCR | | HP 4338 digital mili-ohm meter |

Mechanical Performance Test

| Item | Specification | Test Methods |
|------------------------|--|--|
| Substrate Bending Test | Without deformation cases Impedance: within $\pm 30\%$ of initial value DC Resistance shall be satisfied | Test device shall be soldered on the substrate Substrate Dimension: 100x40x0.8mm Deflection: 3.0mm Keeping Time: 10 seconds then return  |
| Vibration | Appearance: No damage Impedance: within $\pm 30\%$ of initial value DC Resistance shall be satisfied | Test device shall be soldered on the substrate Oscillation Frequency : 10 to 55 to 10Hz for 1min Amplitude : 1.5mm(peak-peak) Time : 2hrs for each axis (X,Y&Z), total 6hrs |

Mechanical Performance Test (continued)

| Item | Specification | Test Methods |
|-----------------------------------|---|---|
| Resistance to Soldering Heat | No visible damage Electrical characteristics and mechanical characteristics shall be satisfied | Solder temp: 265±5°C Immersion time: 6±1sec Preheating: 100°C to 150°C, 1 minute Measured after exposure in the room condition for 24hrs Solder: Sn-3Ag-0.5Cu |
| Solderability | 95% min. coverage of all metallized area | Solder Temperature: 240±5°C Immersion Time: 3±1sec Solder: Sn-3Ag-0.5Cu |
| Terminal Strength | Without deformation cases Impedance: within±30% of initial value DC Resistance shall be satisfied | Solder chip on PCB and applied 10N (1.02Kgf) for 10 sec |
| Temperature Cycle | Appearance: No damage. Impedance: within±30% of initial value DC Resistance shall be satisfied | One cycle: step1: -55±3°C for 30±3min step2: standard atmospheric conditions 5s or less step3: 125±2°C for 30±3min step4: standard atmospheric conditions 5s or less Total: 100cycles Measured after exposure in the room condition for 24hrs |
| Humidity Resistance | | Temperature: 60±2°C Relative Humidity: 90 ~ 95% Applied Current: Rated Current (maximum value) Time: 1008±12hrs Measured after exposure in the room condition for 24hrs |
| High Temperature Resistance | | Temperature: 125±2°C Applied Current: Rated Current (maximum value) Time: 1008±12hrs Measured after exposure in the room condition for 24hrs |
| Low Temperature Storage Life Test | | Temperature: -55±2°C Time: 1008±12hrs Measured after exposure in the room condition for 24hrs |
| Thermal Shock | | -55°C~125°C kept stabilized for 30 minutes each for 100 cycles Measured after exposure in the room condition for 24hrs |
| | | |

Operating Temperature: -55°C ~ 125°C

Storage Temperature: <40°C ; Humidity 30~70%RH