

## Type BMB-P Series

### Key Features

Effective EMI Protection

Low DC Resistance

High Current Handling

Various Package Sizes Available

Inorganic Material Construction

Suited to Noise Filtering applications

Terminal finish matte Sn over Cu/Ni underplate



The P Series of multilayer beads is suitable for use in high current circuits due to its low dc resistance. It can match power lines to a maximum of 6 amps. The P series is available in 0402, 0603, 0805 and 1206 package sizes

### Electrical Performance

| Part Number     | Impedance ( $\Omega$ ) at 100MHz | DC Resistance ( $\Omega$ ) maximum | Rated Current (mA) maximum |
|-----------------|----------------------------------|------------------------------------|----------------------------|
| BMB-1E-0010P-N8 | 10 $\pm$ 25%                     | 0.05                               | 1000                       |
| BMB-1E-0120P-N8 | 120 $\pm$ 25%                    | 0.095                              | 1500                       |
| BMB-1E-0220P-N8 | 220 $\pm$ 25%                    | 0.28                               | 700                        |
|                 |                                  |                                    |                            |
| BMB-1J-0010P-N8 | 10 $\pm$ 25%                     | 0.01                               | 5000                       |
| BMB-1J-0025P-N8 | 25 $\pm$ 25%                     | 0.03                               | 3000                       |
| BMB-1J-0030P-N8 | 30 $\pm$ 25%                     |                                    |                            |
| BMB-1J-0060P-N8 | 60 $\pm$ 25%                     | 0.04                               | 2500                       |
| BMB-1J-0120P-N8 | 120 $\pm$ 25%                    | 0.05                               |                            |
| BMB-1J-0150P-N8 | 150 $\pm$ 25%                    | 0.10                               | 2000                       |
| BMB-1J-0220P-N8 | 220 $\pm$ 25%                    |                                    |                            |
| BMB-1J-0300P-N8 | 300 $\pm$ 25%                    |                                    |                            |
| BMB-1J-0470P-N8 | 470 $\pm$ 25%                    | 0.15                               | 1500                       |
| BMB-1J-0600P-N8 | 600 $\pm$ 25%                    | 0.20                               |                            |
|                 |                                  |                                    |                            |
| BMB-2A-0010P-N8 | 10 $\pm$ 25%                     | 0.01                               | 6000                       |
| BMB-2A-0020P-N8 | 20 $\pm$ 25%                     | 0.03                               | 4000                       |
| BMB-2A-0030P-N8 | 30 $\pm$ 25%                     | 0.015                              | 3000                       |
| BMB-2A-0060P-N8 | 60 $\pm$ 25%                     | 0.025                              |                            |
| BMB-2A-0080P-N8 | 80 $\pm$ 25%                     | 0.04                               | 5000                       |
| BMB-2A-0120P-N8 | 120 $\pm$ 25%                    |                                    | 3000                       |
| BMB-2A-0150P-N8 | 150 $\pm$ 25%                    |                                    |                            |
| BMB-2A-0220P-N8 | 220 $\pm$ 25%                    |                                    |                            |
| BMB-2A-0300P-N8 | 300 $\pm$ 25%                    | 0.07                               | 2000                       |
| BMB-2A-0470P-N8 | 470 $\pm$ 25%                    | 0.1                                |                            |
| BMB-2A-0600P-N8 | 600 $\pm$ 25%                    |                                    |                            |

Electrical Performance (continued)

| Part Number     | Impedance ( $\Omega$ )<br>at 100MHz<br>* 50MHz<br>* 30MHz | DC Resistance ( $\Omega$ )<br>maximum | Rated Current (mA)<br>maximum |
|-----------------|---|---------------------------------------|-------------------------------|
| BMB-2B-0030P-N8 | 30 $\pm$ 25   | 0.03                                  | 4000                          |
| BMB-2B-0050P-N8 | 50 $\pm$ 25   |                                       |                               |
| BMB-2B-0080P-N8 | 80 $\pm$ 25   |                                       |                               |
| BMB-2B-0120P-N8 | 120 $\pm$ 25  | 0.04                                  | 3000                          |
| BMB-2B-0300P-N8 | 300 $\pm$ 25  | 0.06                                  | 2500                          |
| BMB-2B-0500P-N8 | 500 $\pm$ 25  | 0.07                                  | 2000                          |

Operating temperature range - -55 ~ +125°C

Temperature should be less than 40°C when rated current is applied.

Storage:

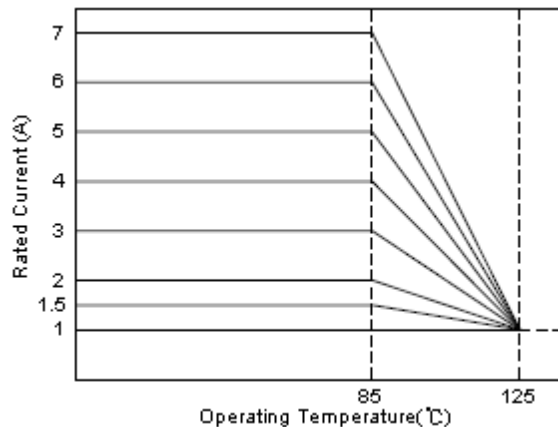
Temperature Range: -40 ~ +85°C

Humidity: Less than 75% RH

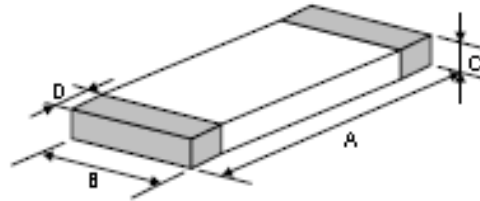
Current Derating

In operating temperatures exceeding +85°C derating of current is necessary for chip ferrite beads for which rated current is 1.5A or over.

Please apply the derating curve shown below according to the operating temperature

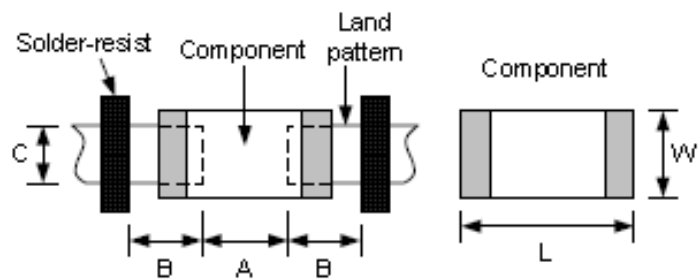


Product Dimensions



| Size | A (mm)    | B (mm)    | C (mm)    | D (mm)     |
|------|-----------|-----------|-----------|------------|
| 0402 | 1.0 ±0.10 | 0.5 ±0.10 | 0.5 ±0.10 | 0.25 ±0.10 |
| 0603 | 1.6 ±0.15 | 0.8 ±0.15 | 0.8 ±0.15 | 0.3 ±0.20  |
| 0805 | 2.0 ±0.20 | 1.2 ±0.20 | 0.9 ±0.20 | 0.5 ±0.30  |
| 1206 | 3.2 ±0.20 | 1.6 ±0.20 | 1.1 ±0.20 | 0.5 ±0.30  |

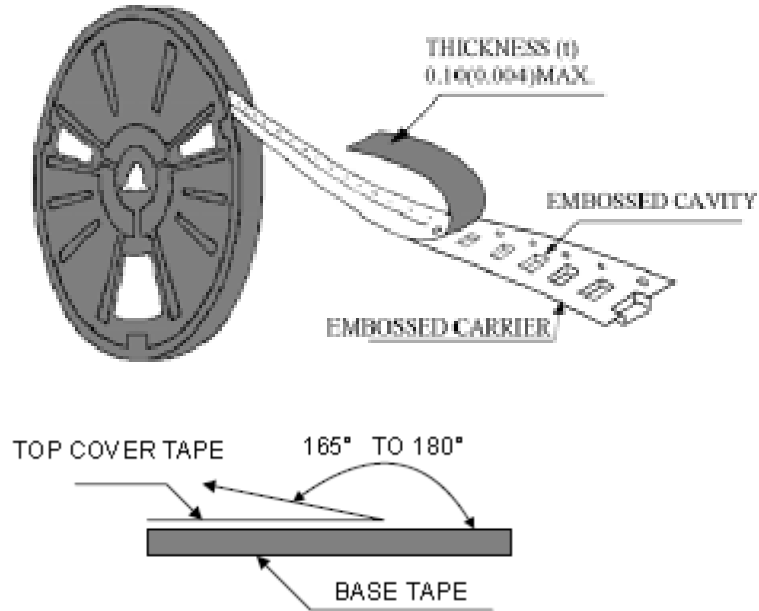
Recommended PCB Layout



| Size      | 0402        | 0603      | 0805      | 1206      |     |
|-----------|-------------|-----------|-----------|-----------|-----|
| Component | L           | 1.0       | 1.6       | 2.0       | 3.2 |
|           | W           | 0.5       | 0.8       | 1.2       | 1.6 |
| A         | 0.45 ~ 0.55 | 0.6 ~ 0.8 | 0.8 ~ 1.2 | 1.8 ~ 2.2 |     |
| B         | 0.40 ~ 0.50 | 0.6 ~ 0.8 | 0.8 ~ 1.2 | 1.1 ~ 1.6 |     |
| C         | 0.40 ~ 0.50 | 0.6 ~ 0.8 | 0.9 ~ 1.6 | 0.9 ~ 1.6 |     |

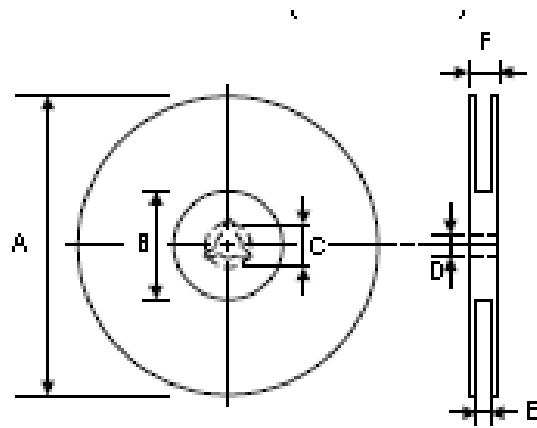
Packaging

Peel off force:

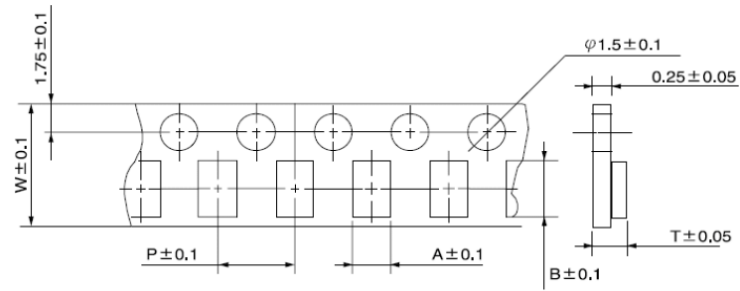


The force for peeling off cover tape is 10 grams in the direction shown

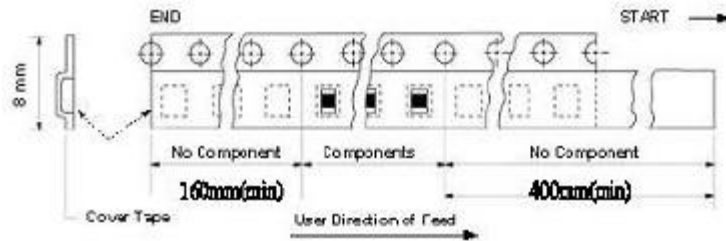
Dimensions (mm)



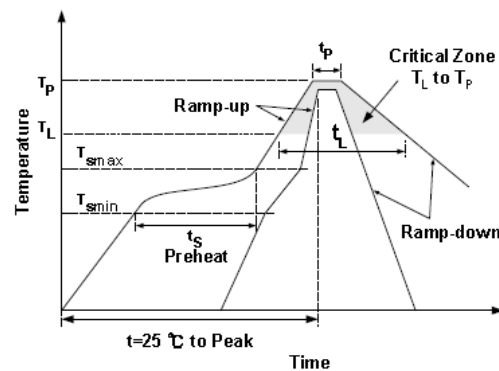
| A      | B               | C  | D       | E      | F       |
|--------|-----------------|----|---------|--------|---------|
| 178 ±1 | 60 +0.5<br>-0.1 | -- | 13 ±0.2 | 9 ±0.5 | 12 ±0.5 |



| Size | A   | B   | W | P | T   | Chips / Reel |
|------|-----|-----|---|---|-----|--------------|
| 0402 | 0.6 | 1.1 | 8 | 2 | 1.0 | 10000        |
| 0603 | 1.1 | 1.9 | 8 | 4 | 1.1 | 4000         |
| 0805 | 1.5 | 2.3 | 8 | 4 | 1.3 | 4000         |
| 1206 | 1.9 | 3.5 | 8 | 4 | 1.5 | 3000         |

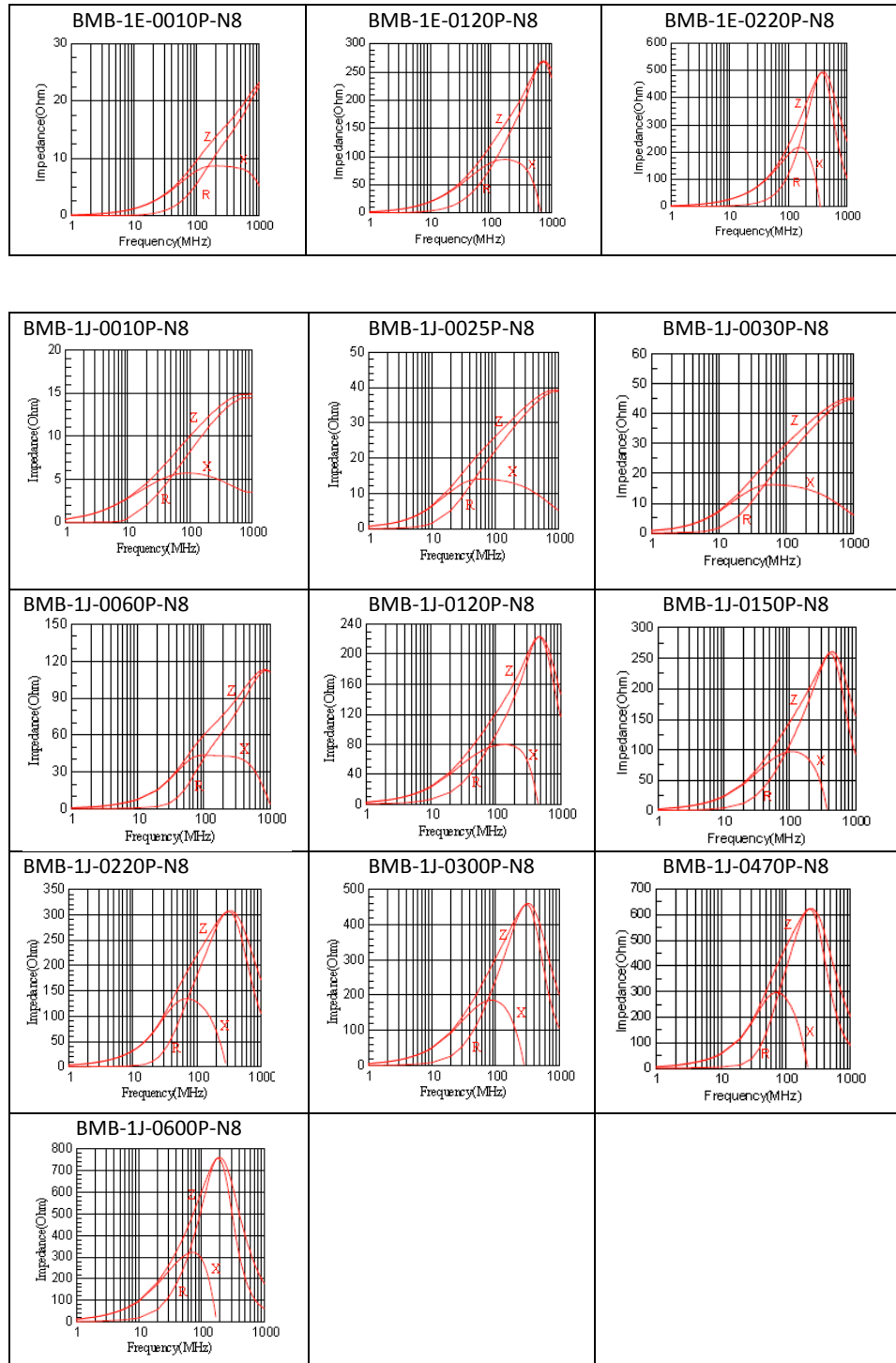


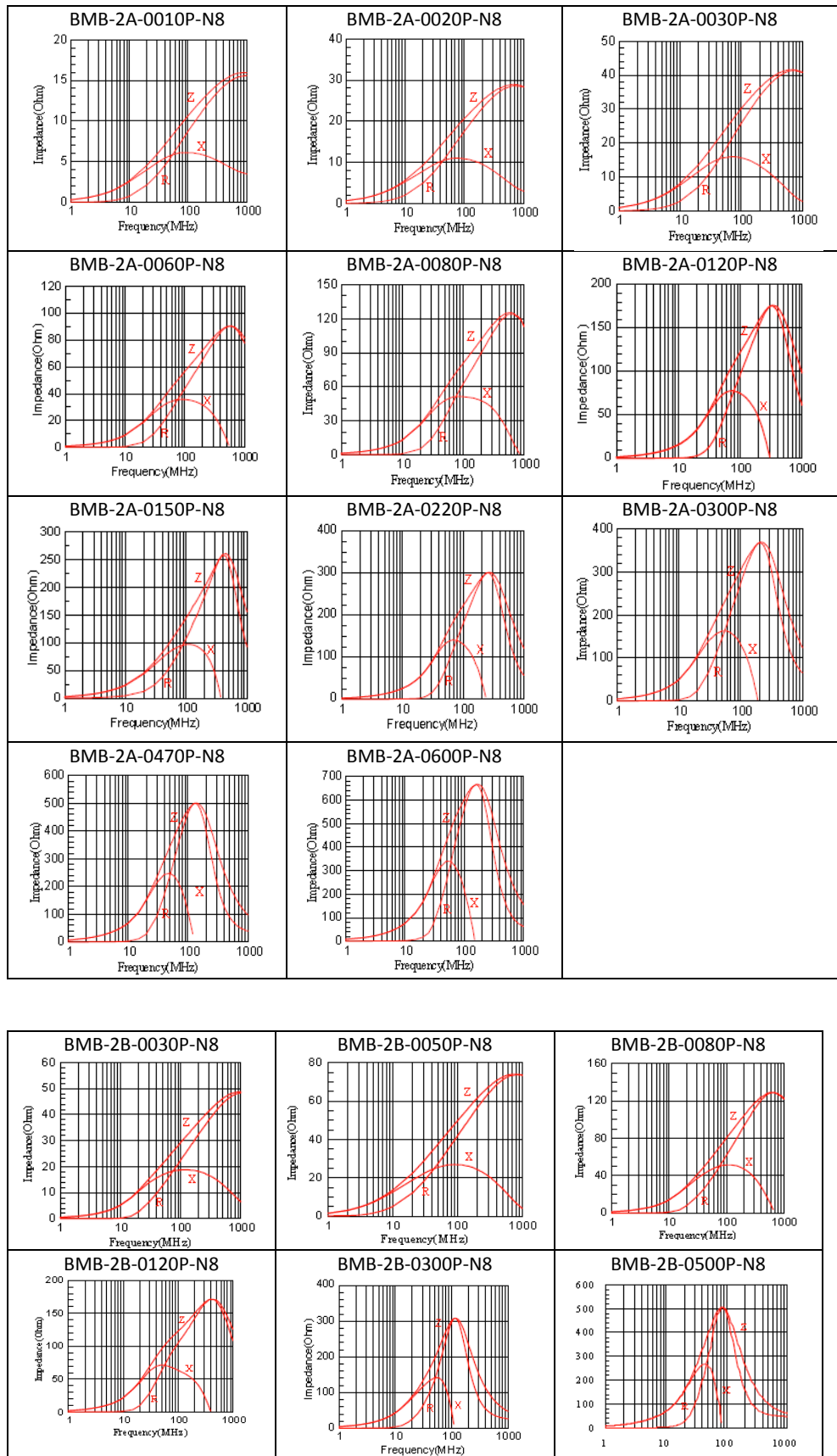
## Recommended Reflow Solder Profile



| Profile Feature                                  |                  | Pb Free          |
|--|------------------|------------------|
| Preheat  | ts               | 60 ~ 180 seconds |
|  | Tsmin            | 150°C            |
|  | Tsmax            | 200°C            |
| Average Ramp up rate (Tsmax to Tp)               |                  | 3°C/second max.  |
| Time main above                                  | Temperature (TL) | 217°C            |
|  | Time (tL)        | 60 ~ 150 seconds |
| Peak Temperature (Tp)                            |                  | 250 ~ 260°C      |
| Time within 5°C of actual peak temperature ((tp) |                  | 10 seconds       |
| Ramp down rate                                   |                  | 6°C/second max.  |
| Time 25°C to peak temperature                    |                  | 8 minutes max.   |

Typical Characteristic Curves (T=25°C)





单击下面可查看定价，库存，交付和生命周期等信息

[>>TE Connectivity\(泰科\)](#)