



**THE DATASHEET OF  
BLM31PG121SN1L**



## ● Part Numbering

### Chip Ferrite Bead

(Part Number)

|    |   |    |    |     |   |   |   |   |
|----|---|----|----|-----|---|---|---|---|
| BL | M | 18 | AG | 102 | S | N | 1 | D |
| ①  | ② | ③  | ④  | ⑤   | ⑥ | ⑦ | ⑧ | ⑨ |

#### ① Product ID

| Product ID |                    |
|------------|--------------------|
| BL         | Chip Ferrite Beads |

#### ② Type

| Code | Type                                  |
|------|---------------------------------------|
| A    | Array Type                            |
| E    | DC Bias Characteristics Improved Type |
| H    | High-Frequency • Broadband Type       |
| M    | Ferrite Bead Single Type              |
| T    | Assembly Type                         |

#### ④ Characteristics/Applications

| Code <sup>*1</sup> | Characteristics/Applications                                   |
|--------------------|--|
| AG                 | For General Use  |
| AX                 |  |
| TG                 |  |
| BA                 | For High-speed Signal Lines                                    |
| BB                 |  |
| BC                 |  |
| BD                 |  |
| BX                 |  |
| KD                 |  |
| KG                 |  |
| KN                 | For Power Lines  |
| KX                 |  |
| PD                 |  |
| PG                 |  |
| PN                 |  |
| PS                 |  |
| PK                 |  |
| PX                 |  |
| PT                 |  |
| SD                 |  |
| SG                 | For Digital Interface  |
| SN                 |  |
| SP                 | For GHz Band General Use                                       |
| RK                 |  |
| HG                 | For GHz Band High-speed Signal Lines (Low Direct Current Type) |
| EB                 |  |
| EG                 | For GHz Band General Use (Low DC Resistance Type)              |
| EX                 |  |
| HA                 | For GHz Band High-speed Signal Lines                           |
| HB                 |  |
| HD                 |  |
| HE                 |  |
| HK                 | For GHz Band Digital Interface                                 |
| GA                 | For High-GHz Band High-speed Signal Lines                      |
| GG                 | For High-GHz Band General Use                                  |
| DN                 | For High-GHz Band General Use (Low Direct Current Type)        |

\*1 Frequency characteristics vary with each code.

#### ③ Dimensions (LxW)

| Code | Dimensions (LxW) | Size Code (inch) |
|------|------------------|------------------|
| 02   | 0.4x0.2mm        | 01005            |
| 03   | 0.6x0.3mm        | 0201             |
| 15   | 1.0x0.5mm        | 0402             |
| 18   | 1.6x0.8mm        | 0603             |
| 2A   | 2.0x1.0mm        | 0804             |
| 21   | 2.0x1.25mm       | 0805             |
| 31   | 3.2x1.6mm        | 1206             |
| 32   | 3.2x2.5mm        | 1210             |
| 41   | 4.5x1.6mm        | 1806             |
| 5B   | 5.0x5.0mm        | 2020             |

#### ⑤ Impedance

Expressed by three figures. The unit is in ohm ( $\Omega$ ) at 100MHz. The first and second figures are significant digits, and the third figure expresses the number of zeros that follow the two figures.

#### ⑥ Electrode

Expressed by a letter.

| Code    | Electrode                |
|---------|--------------------------|
| S/F/T/B | Sn Plating               |
| A       | Au Plating               |
| L       | Lead-Free Solder Plating |

#### ⑦ Category

| Code | Category            |
|------|---------------------|
| N    | For General-Purpose |

#### ⑧ Number of Circuits



| Code | Number of Circuits |
|------|--------------------|
| 1    | 1 Circuit          |
| 4    | 4 Circuits         |

#### ⑨ Packaging

| Code | Packaging                                   |
|------|---|
| K    | Embossed Taping ( $\varnothing$ 330mm Reel) |
| L    | Embossed Taping ( $\varnothing$ 180mm Reel) |
| B    | Bulk  |
| J    | Paper Taping ( $\varnothing$ 330mm Reel)    |
| D    | Paper Taping ( $\varnothing$ 180mm Reel)    |

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