

**Multilayer Chip Ferrite Bead**



◆ **Features**

- 1、 Internal silver printed layers and magnetic shielded structures to minimize crosstalk
- 2、 It has sharp impedance characteristics at desirable frequency and does not affect the signal frequency
- 3、 SMD Type & suitable for reflow and wave soldering
- 4、 Four types material and wide range of impedance values for various applications
- 5、 Excellent solderability and heat resistance
- 6、 RoHS Compliant.



◆ **Application**

Filtering between analog and digital circuitry, clock Generation circuitry, I/O interconnects, isolation between RF noisy circuits and logic devices susceptible to functional degradation, power supply filtering to prevent conducted RF energy from corrupting the power generation circuitry, high frequency EMI prevention of computer, printers, VCRs, TVs and portable telephones.

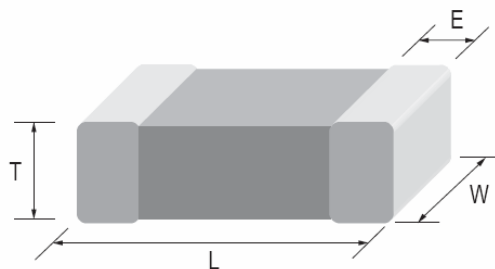
◆ **PRODUCT IDENTIFICATION**

**CMBM 1608 K 601 A S P**  
**(1) (2) (3) (4) (5) (6) (7)**

- (1) Series Type
- (2) Chip Size (mm) :Length X Width
- (3) Material Code
- (4) Nominal Impedance:601=600Ω;  
102=1000Ω
- (5) Rated Curren: A=50mA; B=100mA;C=150mA;  
D=200mA;E=300mA;F=400mA;  
G=500mA;H=600mA;I=700mA;  
J=800mA;K=900mA;L=1000mA.
- (6) Company Code
- (7) Packaging: E- Embossed plastic tape, 7" reel  
P – Embossed paper tape, 7" reel

◆ **Dimensions Unit: mm**

| Size(EIA)  | L          | W          | T          | E         |
|------------|------------|------------|------------|-----------|
| 1608(0603) | 1.60±0.150 | 0.80±0.150 | 0.80±0.150 | 0.30±0.20 |



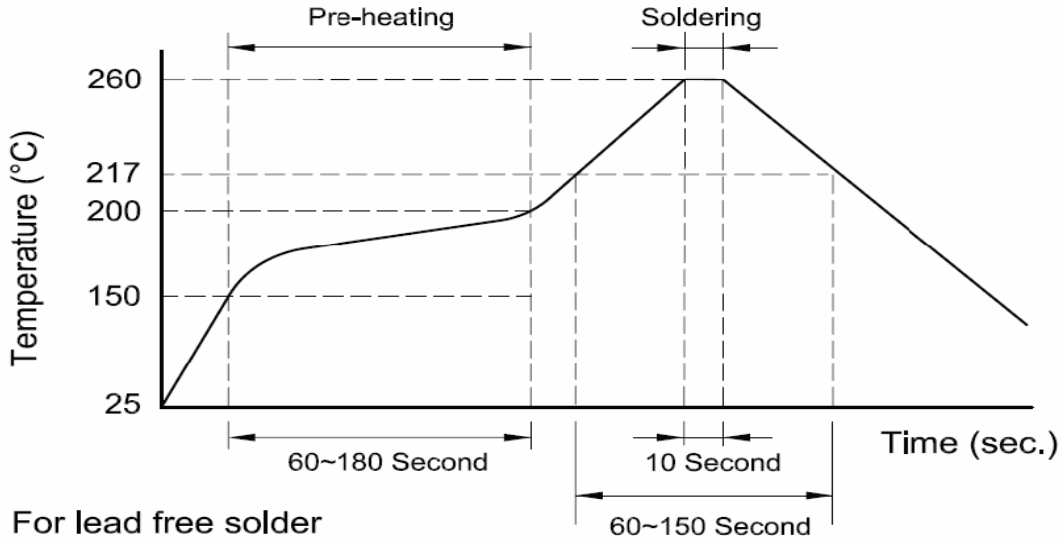
◆ Specification

| Part Number            | Impedance (Ω) | Test Frequency (MHz) | DCR Max. (Ω) | Rated Current (mA) |
|------------------------|---------------|----------------------|--------------|--------------------|
| <b>CMBM1608 Series</b> |               |                      |              |                    |
| CMBM1608G050JSP        | 0~15          | 100                  | 0.05         | 800                |
| CMBM1608G300JSP        | 30±25%        | 100                  | 0.05         | 800                |
| CMBM1608G600HSP        | 60±25%        | 100                  | 0.10         | 600                |
| CMBM1608G900HSP        | 90±25%        | 100                  | 0.15         | 600                |
| CMBM1608G121HSP        | 120±25%       | 100                  | 0.20         | 600                |
| CMBM1608G181GSP        | 180±25%       | 100                  | 0.25         | 500                |
| CMBM1608G221GSP        | 220±25%       | 100                  | 0.30         | 500                |
| CMBM1608G301GSP        | 300±25%       | 100                  | 0.35         | 500                |
| CMBM1608G471GSP        | 470±25%       | 100                  | 0.45         | 500                |
| CMBM1608G601GSP        | 600±25%       | 100                  | 0.50         | 500                |
| CMBM1608G102ESP        | 1000±25%      | 100                  | 0.60         | 300                |
| CMBM1608G152CSP        | 1500±25%      | 100                  | 0.75         | 150                |
| CMBM1608K202BSP        | 2000±25%      | 100                  | 1.00         | 100                |
| CMBM1608K222BSP        | 2200±25%      | 100                  | 1.00         | 100                |
| CMBM1608K252BSP        | 2500±25%      | 100                  | 1.20         | 100                |
| CMBM1608K272BSP        | 2700±25%      | 100                  | 1.40         | 100                |

◆ General Technical Data

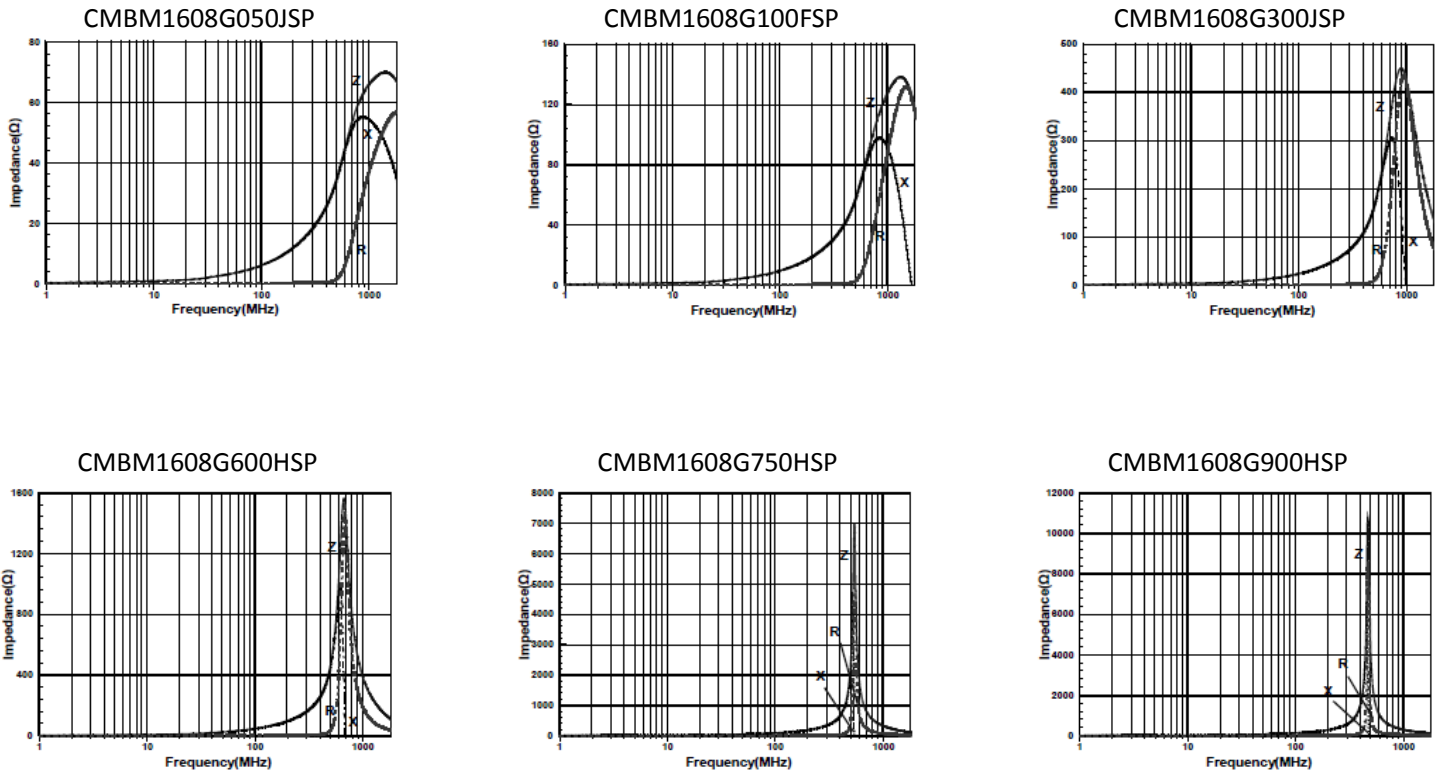
|                             |                          |
|-----------------------------|--------------------------|
| Operating Temperature Range | -55℃ ~ +125℃             |
| Storage Condition           | Less than 40℃ and 70% RH |
| Soldering Method            | Reflow or Wave Soldering |

**Recommended Soldering Conditions**



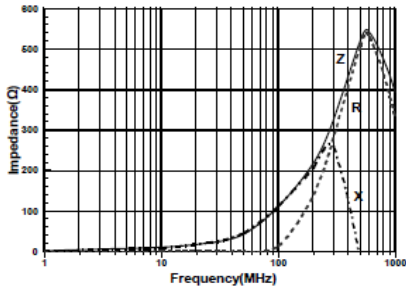
◆ **Characteristics**

**CMBM1608 TYPE**

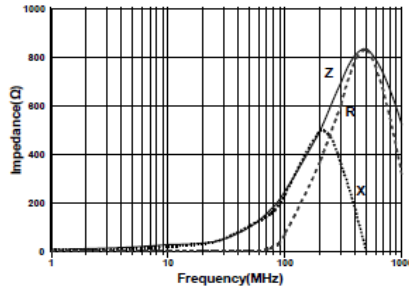


◆ Characteristics

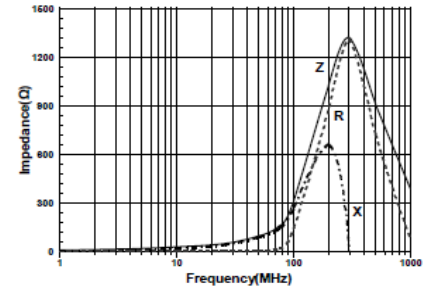
CMBM1608G121HSP



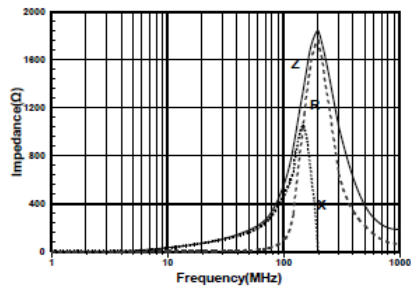
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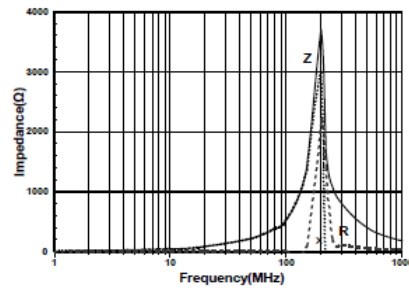
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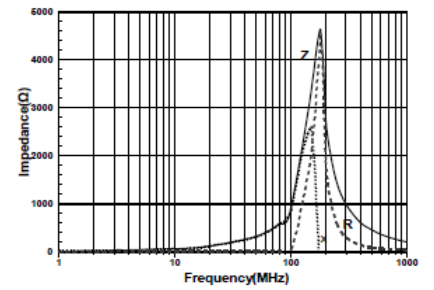
CMBM1608G471GSP



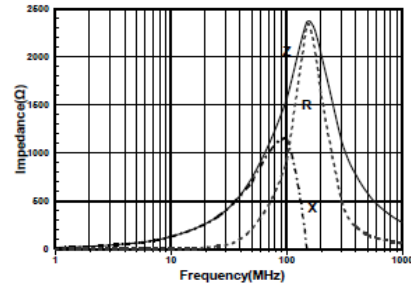
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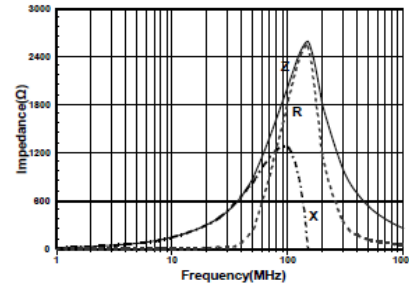
CMBM1608G102ESP



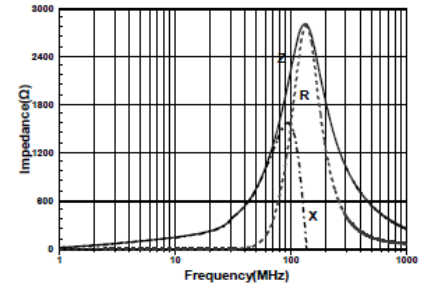
CMBM1608G152KSP



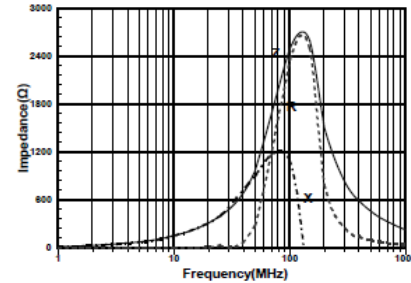
CMBM1608K202BSP



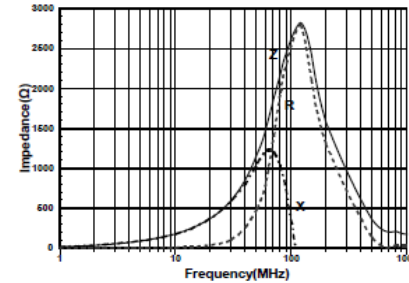
CMBM1608K222BSP



CMBM1608K252BSP



CMBM1608K272BSP



◆ Packaging

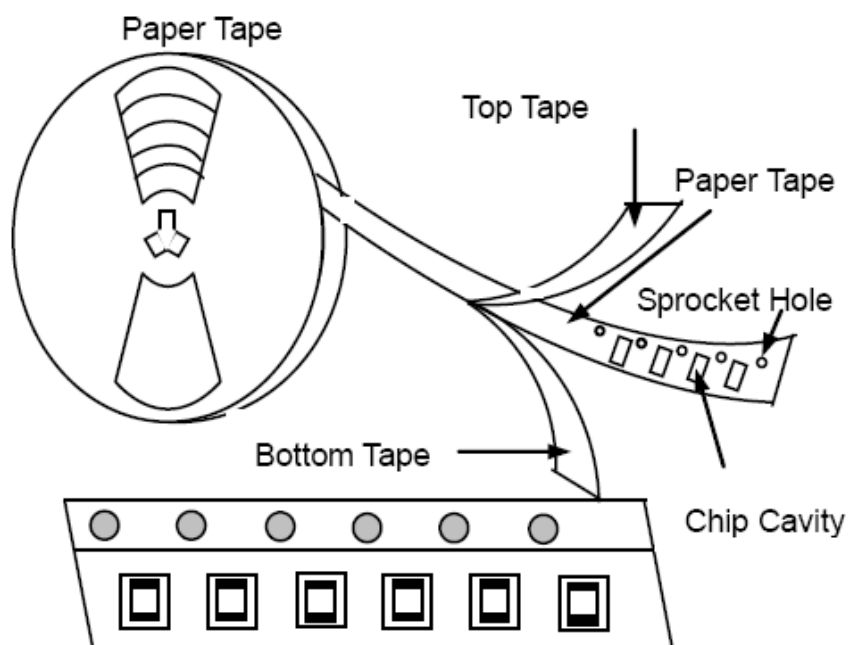
Tape Carrier Packaging:

Packaging code: T

- a. Tape carrier packaging are specified in attached figure
- b. Tape carrier packaging quantity please see the following table

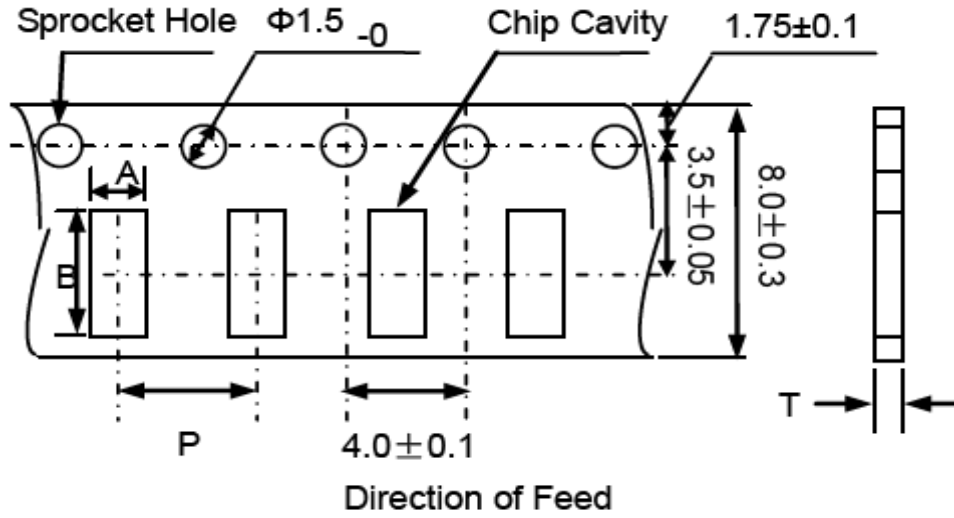
|          |            |
|----------|------------|
| Type     | 1608[0603] |
| T(mm)    | 0.9±0.10   |
| Tape     | Paper Tape |
| Quantity | 4K         |

(1) Taping Drawings (Unit: mm)



**Remark:** The sprocket holes are to the right as the tape is pulled toward the user.

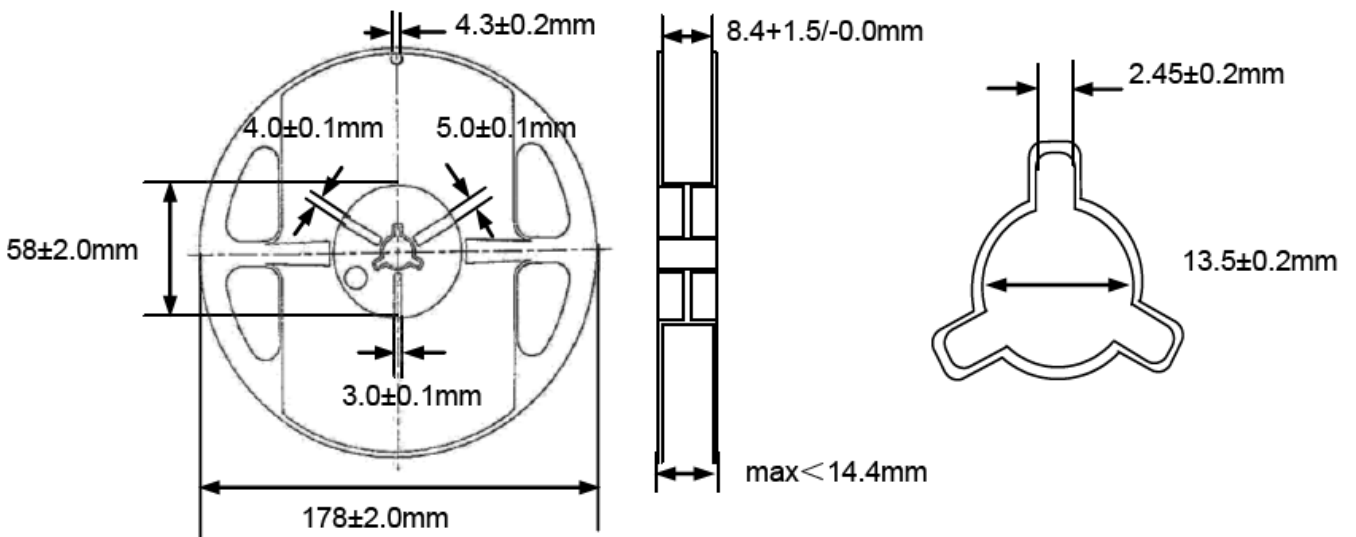
(2) Taping Dimensions (Unit: mm)



Paper Tape

| Type       | A             | B             | P             | T max |
|------------|---------------|---------------|---------------|-------|
| 1608(0603) | $1.0 \pm 0.2$ | $1.8 \pm 0.2$ | $4.0 \pm 0.1$ | 1.1   |

(3) Reel Dimensions (Unit: mm)



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