

# SPECIFICATION FOR APPROVAL

## 承 认 书

|                        |          |
|------------------------|----------|
| CUSTOMER               | NUMBER   |
| 客户名称:                  | 编 号:     |
| DESCRIPTION            | QUANTITY |
| 品 名: 贴片共模滤波器           | 数 量:     |
| PART NO.               | DATE     |
| 型 号: BCDCM7060-2-122TB | 日 期:     |
| CUSTOMER PART NO.      | NOTE     |
| 客户料号:                  | 注 解:     |

|                              |
|------------------------------|
| APPROVAL SIGNATURE<br>客户承认签章 |
|                              |

|                    |                    |                   |                 |
|--------------------|--------------------|-------------------|-----------------|
| APPROVED BY<br>核 准 | Q. C. DEPT.<br>品 管 | CHECKED BY<br>核 查 | DRAWN BY<br>制 作 |
|                    |                    |                   |                 |

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# BCDCM7060-2-122TB

## DC COMMON MODE FILTER

### FEATURES

- A chip-type common mode filter for large current applications.  
Common mode impedance surpasses  $900\Omega$  at 100MHz.  
Noise is greatly suppressed.
- Capable of handling the highest current(up to 2A) of any chip-type common mode filter.
- Height and size have been considered ,resulting in a compact and light-weight choke coil.Applicable for the miniaturization required to reduce the size and weight of portable equipment.
- The products contain no lead and also support lead-free soldering.
- The product does not contain regulatde substances that are slated to be included in ROHS.



### APPLICATIONS

Used for power line noise suppression for any electronic-devices  
Used to counter adapter/battery line noise for relatively large electronic devices such as notebook PCs, stand-alone word processors, etc

### TEMPERATURE RANGES

|                      |                                 |
|----------------------|---------------------------------|
| Operating            | $-40$ to $+125^{\circ}\text{C}$ |
| Storage(After mount) | $-40$ to $+125^{\circ}\text{C}$ |

### Part Number System

BCDCM   7060   -2   -122   T   B  
①            ②            ③            ④            ⑤            ⑥

- ① Type:BCDCM
- ② External Dimensions(L×W) (mm) :7.0\*6.0
- ③ Number of Lines: 2
- ④ Impedance:122=1200  $\Omega$
- ⑤ Packing:Tape & Reel
- ⑥ Management Symbol:B

### ELECTRICAL CHARACTERISTICS

| Part No.          | Impedance ( $\Omega$ ) [at 100MHz] |      | DC resistance             | Rated current | Insulation resistance |
|-------------------|------------------------------------|------|---------------------------|---------------|-----------------------|
|                   | min                                | typ  | (m $\Omega$ ) max[1 line] | ldc (A) max   | (M $\Omega$ ) min     |
| BCDCM7060-2-122TB | 900                                | 1200 | 52                        | 2             | 10                    |

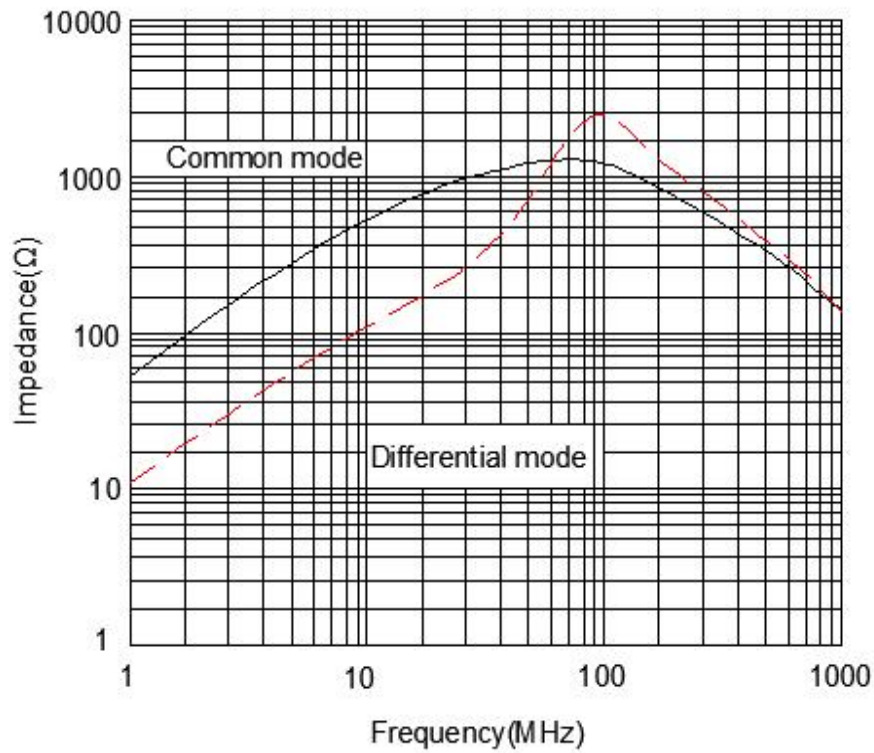
# BCDCM7060-2-122TB

## DC COMMON MODE FILTER

### TYPICAL ELECTRICAL CHARACTERISTICS

#### IMPEDANCE vs. FREQUENCY CHARACTERISTICS

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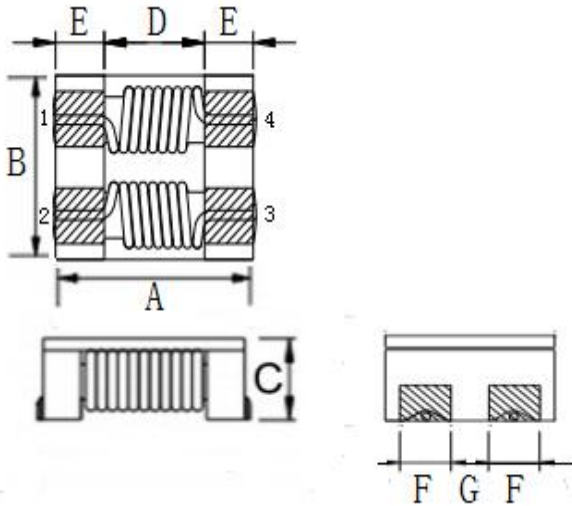


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## DC COMMON MODE FILTER

SHAPES AND DIMENSIONS/CIRCUIT DIAGRAM/RECOMMENDED  
PC BOARD PATTERN(REFLOW SOLDERING)

◆ Dimensions(mm)



UNIT: mm

A:  $7.0 \pm 0.3$

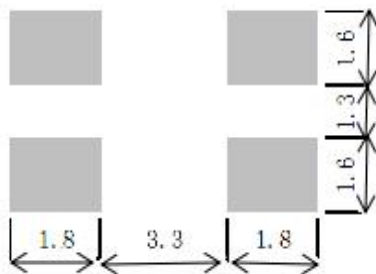
B:  $6.0 \pm 0.3$

C: 2.8 (MAX)

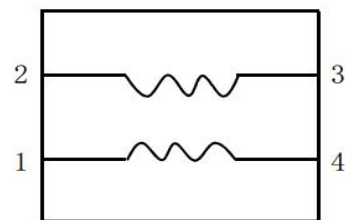
D: 3.5 E: 1.7

F: 1.5 G: 1.5

◆ Land Pattern(mm)



◆ Schematics (Bottom)

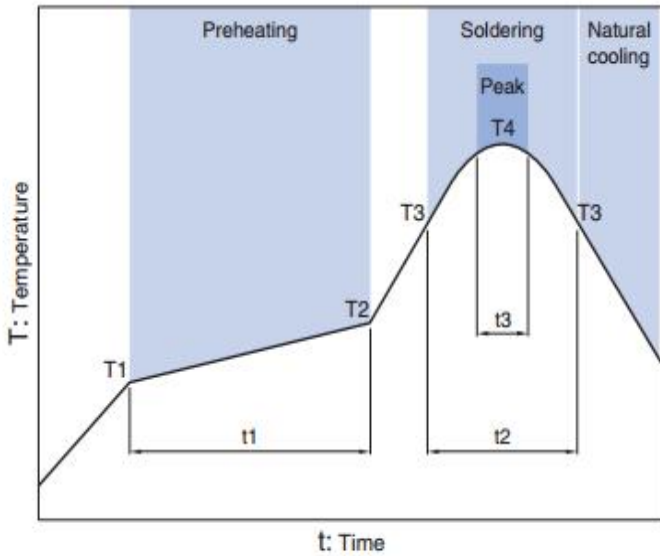


No polarity

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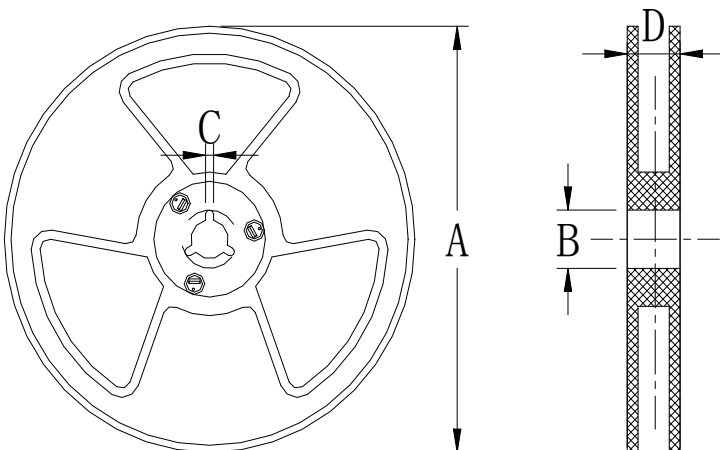
## DC COMMON MODE FILTER

### Recommended Reflow Temperature Curve



| Preheating |       |            | Soldering |           | Peak  |      |
|------------|-------|------------|-----------|-----------|-------|------|
| Temp.      | Time  |            | Temp.     | Time      | Temp. | Time |
| T1         | T2    | t1         | T3        | t2        | T4    | t3   |
| 150°C      | 180°C | 60 to 120s | 230°C     | 10 to 30s | 245°C | 5s   |

Package  
size (mm)



| Specs | 13"                | 7"                 |
|-------|--------------------|--------------------|
| size  |                    |                    |
| A     | $\Phi 330 \pm 2.0$ | $\Phi 178 \pm 2.0$ |
| B     | $\Phi 90 \pm 2.0$  |                    |
| C     | 2.3                |                    |
| D     | 21.5               |                    |