

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: BCDCM4520-2-142T

日 期:

CUSTOMER PART NO.

NOTE

客户料号:

注 解:

| |
|------------------------------|
| APPROVAL SIGNATURE 客户承认签章 |
| |

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

深圳市宝创达电子有限公司

SHENZHEN BAOCHUANGDA ELECTRONICS CO., LTD.

地址: 深圳市龙华区观澜街道横坑河西村77号A栋2楼

Add: 2nd floor building A no.77 hexi village guanlan

Street longhua district shenzhen

Tel: 0755-29736760 Fax: 0755-28056434

Http:// www.bcdcn.com

BCDCM4520-2-142T

DC COMMON MODE FILTER

FEATURES

- A chip-type common mode filter for large current applications. Common mode impedance surpasses 1000 Ω at 100MHz. Noise is greatly suppressed.
- Capable of handling the highest current (up to 1.7A) 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 regulated 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 | -40to+125°C |
| Storage (After mount) | -40to+125°C |

Part Number System

BCDCM 4520 -2 -142 T
① ② ③ ④ ⑤

- ① Type: BCDCM
- ② External Dimensions (W×A) (mm): 4.5*2.0
- ③ Number of Lines: 2
- ④ Impedance: 142=1400 Ω
- ⑤ Packing: Tape & Reel

ELECTRICAL CHARACTERISTICS

| Part No. | Impedance [at 100MHz] | | DC resistance | Rated current | Insulation resistance |
|------------------|-----------------------|------------------|----------------------------|---------------|-----------------------|
| | (Ω) min | (Ω) typ | (m Ω) max [1 line] | ldc (A) max | (M Ω) min |
| BCDCM4520-2-142T | 1000 | 1400 | 80 | 1.7 | 10 |

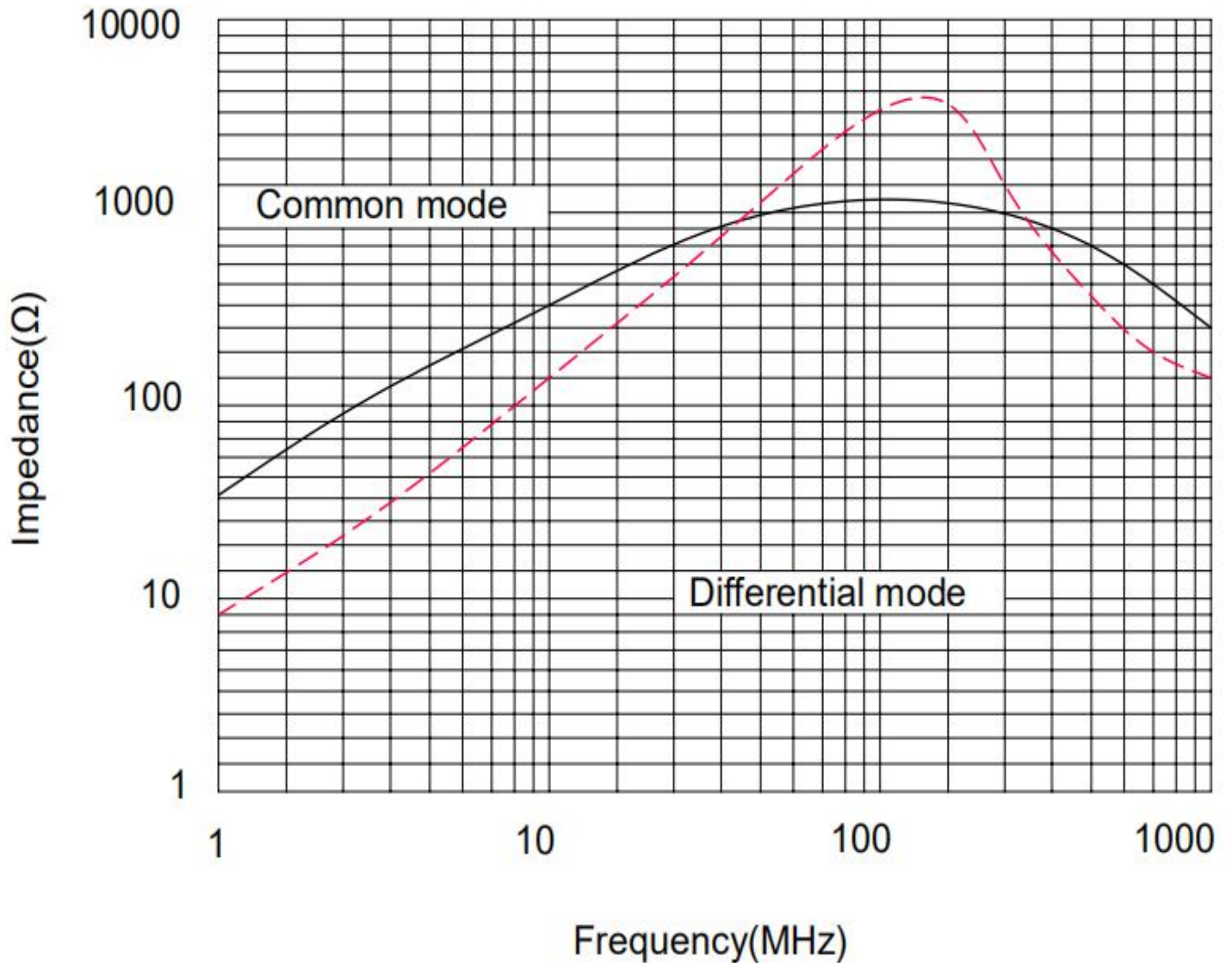
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DC COMMON MODE FILTER

TYPICAL ELECTRICAL CHARACTERISTICS

IMPEDANCE vs. FREQUENCY CHARACTERISTICS

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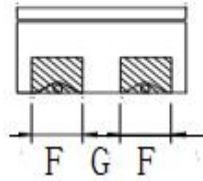
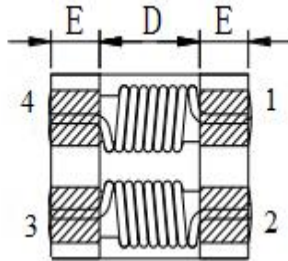
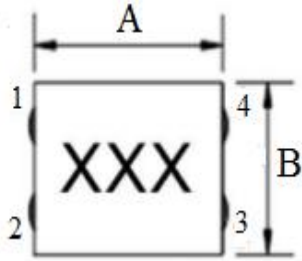


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DC COMMON MODE FILTER

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

◆ Dimensions (mm)



UNIT: mm

A: 4.7 ± 0.5

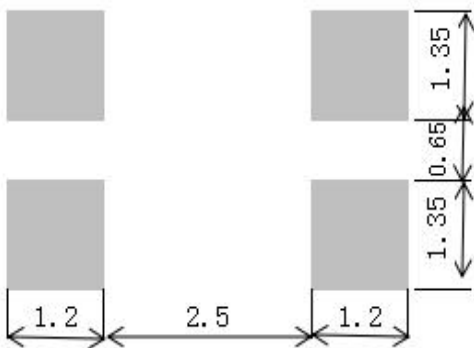
B: 4.5 ± 0.5

C: 2.4 (MAX)

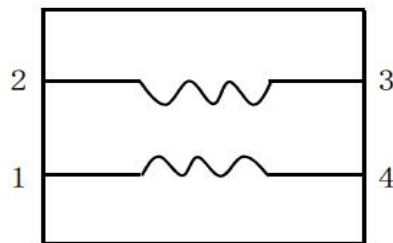
D: 2.7 E: 1.0

F: 1.15 G: 0.85

◆ Land Pattern (mm)



◆ Schematics (Bottom)

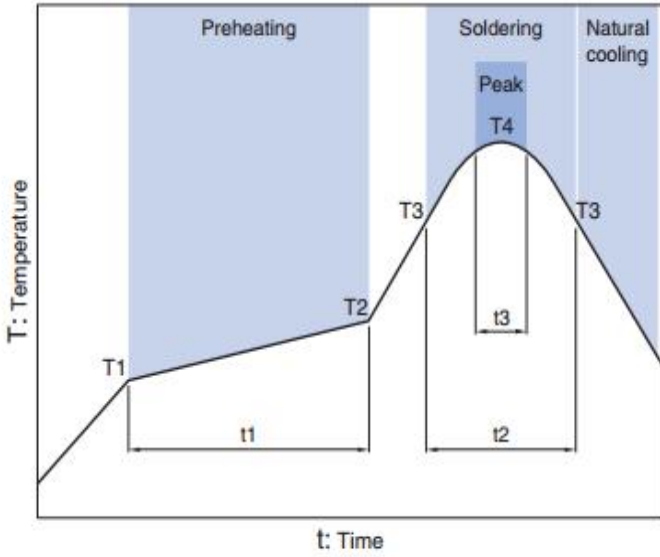


No polarity

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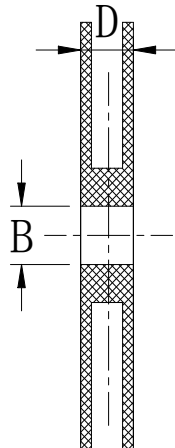
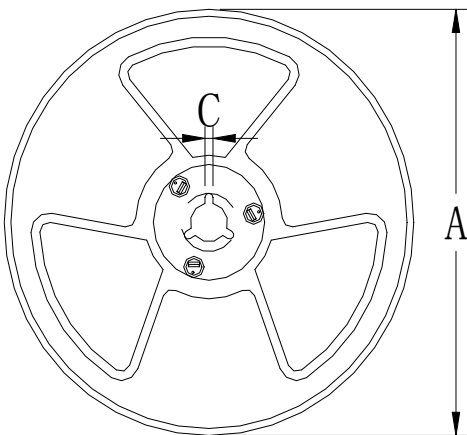
DC COMMON MODE FILTER

Recommended Reflow Temperature Curve



| Preheating | | | Soldering | | Peak | |
|------------|-------|------------|-----------|-----------|-------|------|
| Temp. | 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)



| size \ Specs | 7" |
|--------------|--------------------|
| A | $\Phi 178 \pm 2.0$ |
| B | $\Phi 58$ |
| C | 4.8 |
| D | 14.5 |