

# SPECIFICATION FOR APPROVAL

## 承 认 书

CUSTOMER

客户名称:

DESCRIPTION

品 名: 共模滤波器

PART NO.

型 号: BCDT1405-2-242B

CUSTOMER PART NO.

客户料号:

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

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Http:// www.bcdcn.com

# BCDT1405-2-242B

## DC COMMON MODE FILTER

### FEATURES

- A common mode filter for large current applications.  
Common mode impedance surpasses  $700\ \Omega$  at 20MHz-75MHz.  
Noise is greatly suppressed.
- Capable of handling the highest current (up to 6.5A) of any 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+100°C
Storage (After mount)	-40to+100°C

### Part Number System

BCDT 1405 -2 -242 B

①      ②      ③      ④      ⑤

- ① Type:BCDT
- ② Core External Dimensions (mm):14\*5
- ③ Number of Lines: 2
- ④ Impedance:242=2400  $\Omega$
- ⑤ Packing:Bulking

### ELECTRICAL CHARACTERISTICS

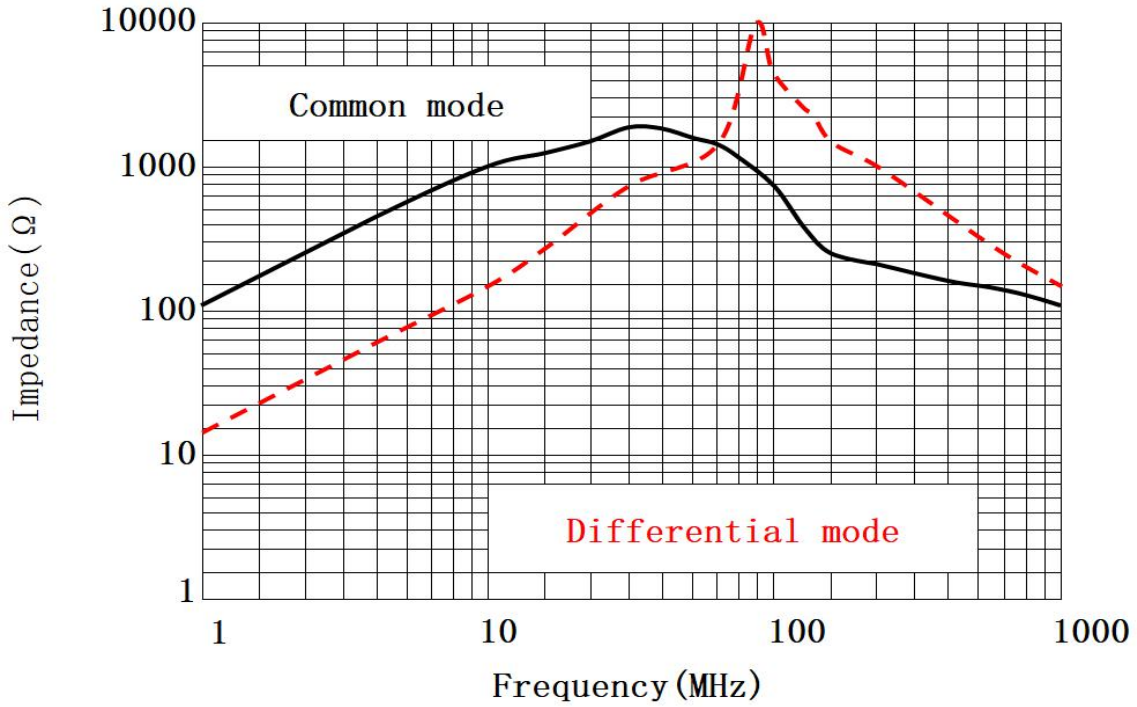
Part No.	Impedance		DC resistance	Rated current	Insulation resistance
	( $\Omega$ ) typ [at 45MHz]	( $\Omega$ ) min [at 20MHz - 75MHz]	(m $\Omega$ ) max [1 line]	Idc (A) max	(M $\Omega$ ) min
BCDT1405-2-242B	2400	700	12	6.5	10

DC COMMON MODE FILTER

TYPICAL ELECTRICAL CHARACTERISTICS

IMPEDANCE vs. FREQUENCY CHARACTERISTICS

BCDT1405-2-242B

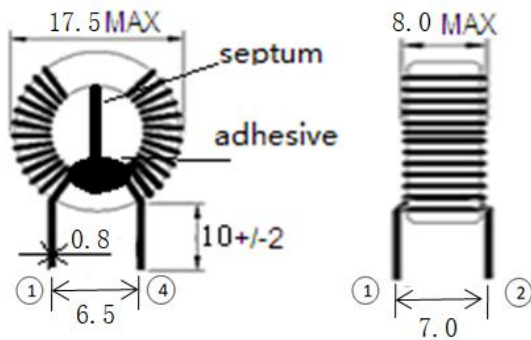


# BCDT1405-2-242B

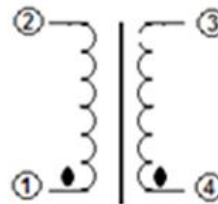
## DC COMMON MODE FILTER

### SHAPES AND DIMENSIONS/CIRCUIT DIAGRAM

#### ◆ Dimensions (mm)



#### Schematics (Bottom)



No polarity

### GENERAL CHARACTERISTICS

1. STORAGE TEMPERATURE RANGE :  $-40^{\circ}\text{C} \sim +100^{\circ}\text{C}$
2. OPERATING TEMPERATURE RANGE :  $-40^{\circ}\text{C} \sim +100^{\circ}\text{C}$  (INCLUDING SELF TEMPERATURE RISE)
3. EXTERNAL APPEARANCE : NO EXTERNAL DEFECTS CAN BE FOUND IN THE VISUAL INSPECTION.
4. TERMINAL STRENGTH : NO DISTINGUISHED TERMINAL PEELING OFF OR WIRE BROKEN SHOULD BE FOUND AFTER EACH OF THE TERMINAL IS APPLIED WITH STATIC PULLING FORCE OF 8N FOR  $60 \pm 5$  SECONDS.
5. HEAT RESISTANCE : NO DISTINGUISHED STRUCTURE AND ELECTRIC DEFECTS SHOULD BE FOUND AFTER  $1.5 \pm 0.5\text{mm}$  HIGH BOTTOM OF ALL THE TERMINALS ARE IMMERSDED IN THE MELTED SOLDER OF  $270 \pm 5^{\circ}\text{C}$  FOR  $5 \pm 1$  SECONDS.