

# Common Mode Filters(SMD) For CAN-BUS / General Signal Line

Conformity to RoHS Directive

## ZJYS Series ZJYS81 Type

### FEATURES

- Operating temperature range covers from  $-40$  to  $+125^{\circ}\text{C}$ .
- Non-dissolution of the abutment amounts in circuit board mounting.
- The products contain no lead and also support lead-free soldering.
- This product conforms to the standards that are slated to be introduced under the RoHS Directive.

### APPLICATIONS

CAN-BUS system, facsimiles, modems, ISDN

### PACKAGING STYLE AND QUANTITIES

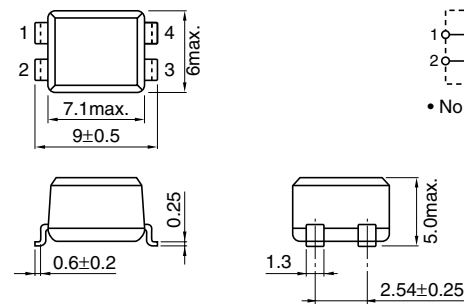
| Packaging style | Quantity         |
|-----------------|------------------|
| Taping          | 1500 pieces/reel |

### PRODUCT IDENTIFICATION

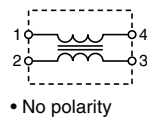
|          |   |     |     |     |     |   |     |
|----------|---|-----|-----|-----|-----|---|-----|
| ZJYS81R5 | - | 2P  | L   | 25  | (T) | - | G01 |
| (1)      |   | (2) | (3) | (4) | (5) |   | (6) |

- (1) Series name  
 (2) Number of line  
 2P: 2-line  
 (3) Winding type  
 L: Sector  
 No mark: Bifilar  
 (4) Product identification number  
 (5) Packaging style  
 T:  $\phi 330\text{mm}$  reel taping  
 (6) TDK internal code

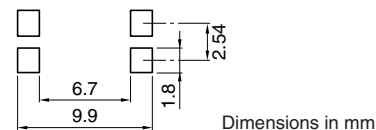
### SHAPES AND DIMENSIONS



### CIRCUIT DIAGRAM

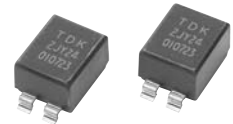


### RECOMMENDED PC BOARD PATTERN



Weight: 0.4g

Dimensions in mm



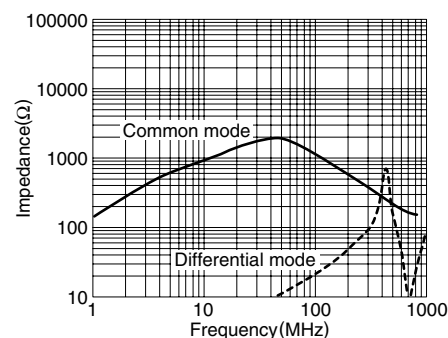
### ELECTRICAL CHARACTERISTICS

| Part No.           | Common mode impedance<br>( $\Omega$ )[10MHz] |      | DC resistance<br>( $\Omega$ )max. | Rated current<br>(A)max. | Insulation resistance<br>(M $\Omega$ )min. | Rated voltage<br>(V)max. |
|--------------------|--|------|-----------------------------------|--------------------------|--|--------------------------|
|                    | min.   | typ. |                                   |                          |  |                          |
| ZJYS81R5-2P24-G01  | 500  | 1000 | 0.15                              | 0.5                      | 100  | 80                       |
| ZJYS81R5-2P50-G01  | 1000   | 2000 | 0.25                              | 0.5                      | 100  | 80                       |
| ZJYS81R5-2PL25-G01 | 600  | 1000 | 0.25                              | 0.5                      | 100  | 80                       |
| ZJYS81R5-2PL51-G01 | 1000   | 2000 | 0.3                               | 0.5                      | 100  | 80                       |

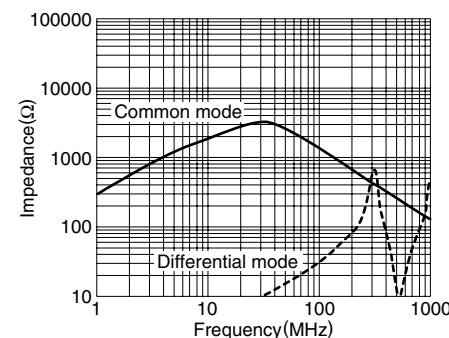
### TYPICAL ELECTRICAL CHARACTERISTICS

#### IMPEDANCE vs. FREQUENCY CHARACTERISTICS

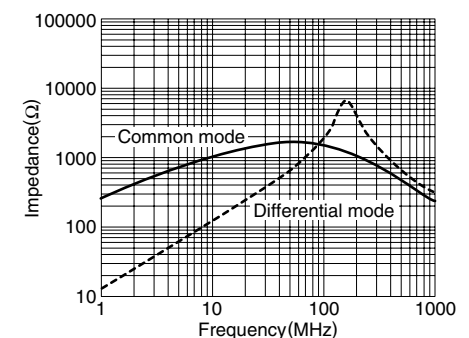
##### ZJYS81R5-2P24



##### ZJYS81R5-2P50



##### ZJYS81R5-2PL25

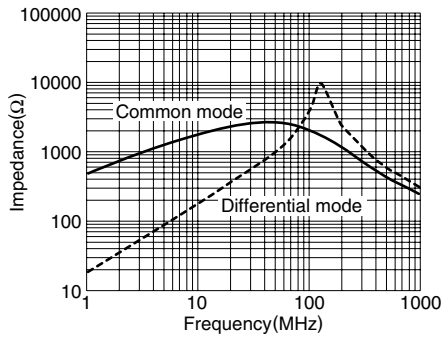


• Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

• All specifications are subject to change without notice.

# **TYPICAL ELECTRICAL CHARACTERISTICS**

## **IMPEDANCE vs. FREQUENCY CHARACTERISTICS**



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