

# Common Mode Filters

For automobile signal line

## ZJYS series

Type:            **ZJYS81**

Issue date:    December 2011

- All specifications are subject to change without notice.
  - 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.
-

# Common Mode Filters For Automobile Signal Line

Conformity to RoHS Directive

## ZJYS Series ZJYS81

### FEATURES

- Operating temperature range covers from  $-40$  to  $+125^{\circ}\text{C}$ .
- The products support lead-free soldering.
- This product conforms to the standards that are scheduled to be introduced under the RoHS Directive.

### APPLICATIONS

CAN-BUS system etc.

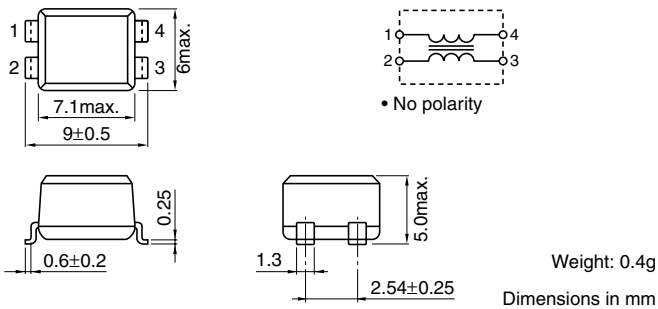
### TEMPERATURE RANGES

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

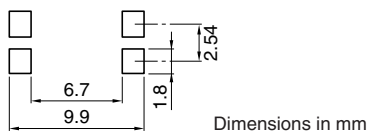
### PACKAGING STYLE AND QUANTITIES

Packaging style	Quantity
Taping	1500 pieces/reel

### SHAPES AND DIMENSIONS/CIRCUIT DIAGRAM



### RECOMMENDED PC BOARD PATTERN

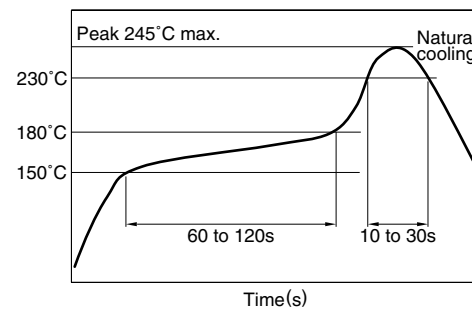


### PRODUCT IDENTIFICATION

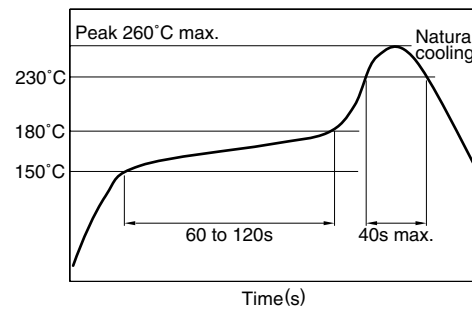
ZJYS81R5 - 2P L 25 (T) - G01  
(1) (2) (3) (4) (5) (6)

- (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

### RECOMMENDED SOLDERING CONDITIONS RECOMMENDED TEMPERATURE PROFILE FOR LEAD-FREE SOLDER



### REFLOW PROFILE FOR SOLDER HEAT RESISTANCE



• 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.

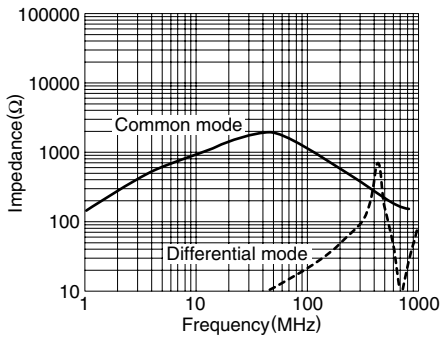
## ELECTRICAL CHARACTERISTICS

Part No.	Common mode impedance ( $\Omega$ )[10MHz]		DC resistance ( $\Omega$ )max.	Rated current (A)max.	Insulation resistance (M $\Omega$ )min.	Rated voltage (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

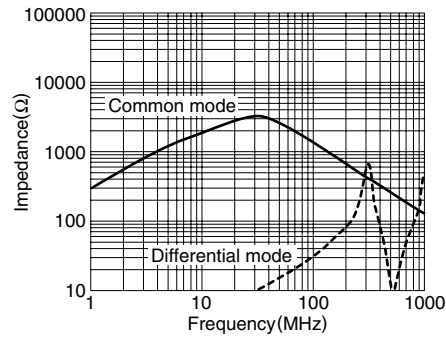
## TYPICAL ELECTRICAL CHARACTERISTICS

### IMPEDANCE vs. FREQUENCY CHARACTERISTICS

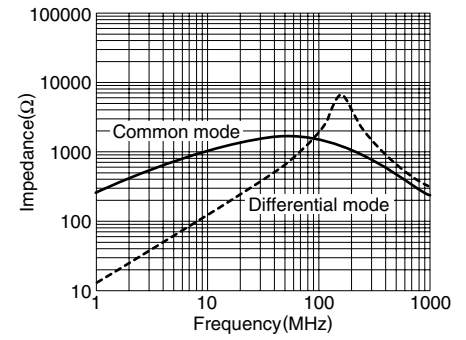
ZJYS81R5-2P24-G01



ZJYS81R5-2P50-G01



ZJYS81R5-2PL25-G01



ZJYS81R5-2PL51-G01

