

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.
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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.

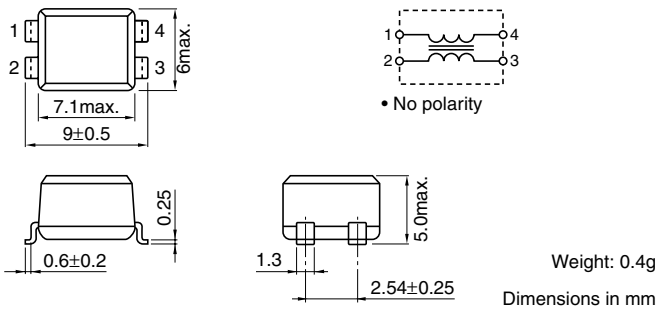
TEMPERATURE RANGES

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

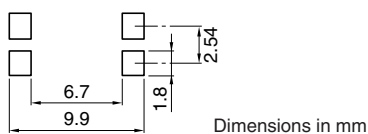
PACKAGING STYLE AND QUANTITIES

Packaging style	Quantity
Taping	1500 pieces/reel

SHAPES AND DIMENSIONS/CIRCUIT DIAGRAM



RECOMMENDED PC BOARD PATTERN

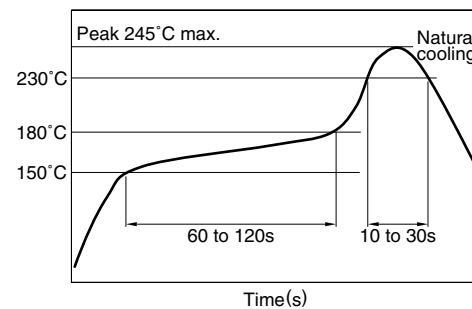


PRODUCT IDENTIFICATION

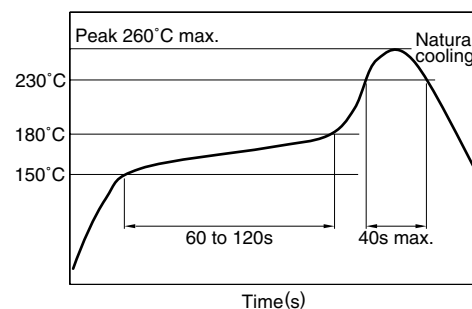
ZJYS81R5 - 2P L 25 (T) - G01
(1) (2) (3) (4) (5) (6)

- (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.

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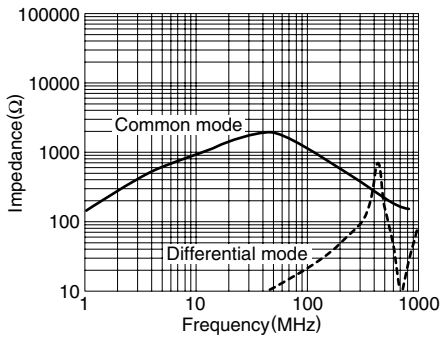
ELECTRICAL CHARACTERISTICS

Part No.	Common mode impedance (Ω)[10MHz]		DC resistance (Ω)max.	Rated current (A)max.	Insulation resistance (M Ω)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

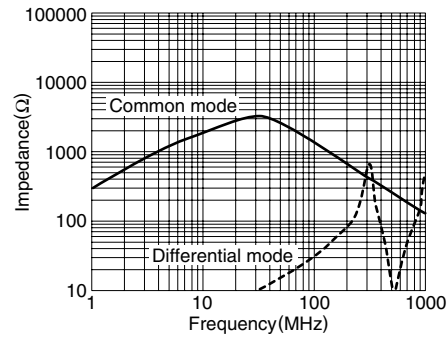
TYPICAL ELECTRICAL CHARACTERISTICS

IMPEDANCE vs. FREQUENCY CHARACTERISTICS

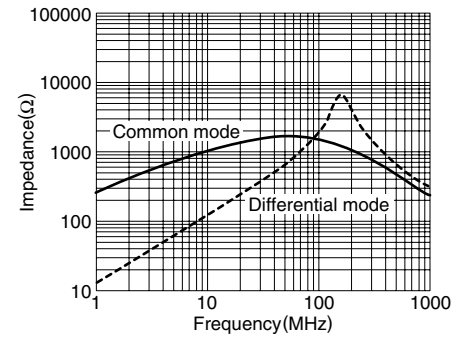
ZJYS81R5-2P24-G01



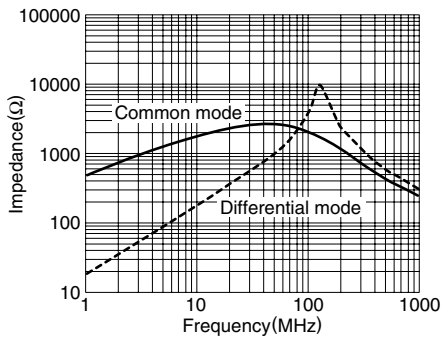
ZJYS81R5-2P50-G01



ZJYS81R5-2PL25-G01



ZJYS81R5-2PL51-G01



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