

Common Mode Filters(DIP) For General Signal Line / Power Line

Conformity to RoHS Directive

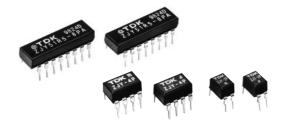
ZJY Series

FEATURES

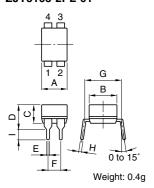
- A common mode filter for distortion-free removal of noise from transmitted signals. Best common mode filter for transmission of high quality signals.
- Best filter for countering the common mode noise resulting from data signal processing by PCs, phone equipment, etc.
- Highly appropriate for IC board mounting due to DIP type structure.
- Due to a maximum current tolerance of 3A, can also be used to counter power line noise.

APPLICATIONS

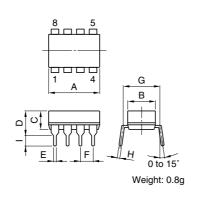
Personal computers, telephones, LANs, ISDNs, digital PBXs, electronic games, CTVs, CD-ROM drives, 8mm video equipment, and other electronic devices.



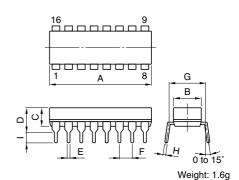
SHAPES AND DIMENSIONS TRANSFER MOLD ZJY51R5-2P-01, -2PB-01, -2PL-01 ZJY5103-2PL-01



ZJY51R5-4P-01, -M4PA-01



PLASTIC CASE ZJY51R5-8PA-01



Dimensions in mm

Part No.	A max.	B max.	C max.	D max.	Е	F±0.25	G	Н	ı
ZJY51R5-2P-01, -2PB-01, -2PL-01, 5103-2PL-01*	5.5	6.86	4.57	5.84	0.5	2.54	7.62	0.25	2.54
ZJY51R5-4P-01, -M4PA-01	10.5	6.86	4.57	5.84	0.5	2.54	7.62	0.25	2.54
ZJY51R5-8PA-01	23.5	7	4.6	6.3	0.5	2.54	7.62	0.25	2.54

^{*} The "-01" designation at the end of the product code indicates Lead-free compatible product.

CIRCUIT DIAGRAMS ZJY51R5-2P-01, -2PB-01, -2PL-01 ZJY5103-2PL-01



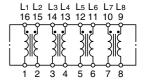
ZJY51R5-4P-01



ZJY51R5-M4PA-01



ZJY51R5-8PA-01



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[•] 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.



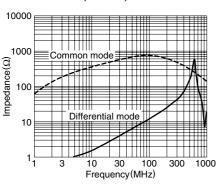
ELECTRICAL CHARACTERISTICS

Part No.	ZJY51R5-2P-01, -2PB*1-01, -2PL*2-01, -4P-01	ZJY5103-2PL-01	ZJY51R5-M4PA-01	ZJY51R5-8PA-01	
Rated voltage Edc(V)	50	50	50	50	
Rated current (A)	2	3	0.5	0.5	
Test voltage Edc(V) [Between terminals for 5s]	125	125	125	125	
Insulation resistance (MΩ)	100min.	100min.	100min.	100min.	
[Between terminals at DC.50V for 1min]	TOOMIN.	TOOTHIT.	TOOTHIII.		
DC resistance (Ω) [Each line]	0.06max.	0.03max.	0.2max.	0.06max.	
Operating temperature range (°C)	-25 to +85	-25 to +85	-25 to +85	-25 to +85	
Impedance (Ω) [+5 to +35°C]	200min.	100min.	200min.	200min.	
	[20 to 300MHz]	[100 to 300MHz] [20 to 300MHz]		[20 to 300MHz]	

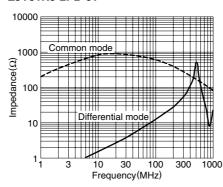
^{*1} This type has improved low-range characteristics.

TYPICAL ELECTRICAL CHARACTERISTICS IMPEDANCE CHARACTERISTICS (for 1 element)

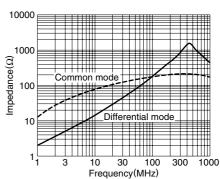
ZJY51R5-2P-01, -4P-01, -8PA-01



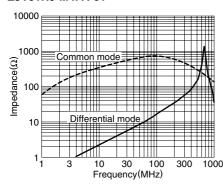
ZJY51R5-2PB-01



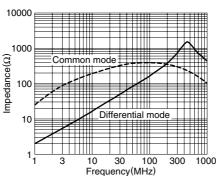
ZJY5103-2PL-01



ZJY51R5-M4PA-01

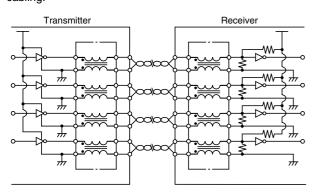


ZJY51R5-2PL-01



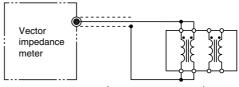
TYPICAL APPLICATION

An application example showing how radiation noise is prevented when transmitter and receiver are connected via twisted pair cabling.



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MEASURING CIRCUIT



Vector impedance meter(YHP 4191A equivalent) Measuring at each Common mode choke coil

PACKAGING STYLE AND QUANTITIES (Tube)

` '		
ZJY51R5-2P-01	80 pieces	
ZJY51R5-2PB-01	80 pieces	
ZJY51R5-2PL-01	80 pieces	
ZJY5103-2PL-01	80 pieces	
ZJY51R5-4P-01	40 pieces	
ZJY51R5-M4PA-01	40 pieces	
ZJY51R5-8PA-01	20 pieces	

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 $^{^{*2}}$ This type is wrapped separately (for communication lines).