

Common Mode Filters(SMD) For General Signal Line

Conformity to RoHS Directive

ZJYS Series ZJYS51 Type

FEATURES

- A common mode filter for distortion-free noise removal from transmitted signals. Optimized for transmission of high quality signals.
- Best filter for countering the common mode noise resulting from data signal processing by PCs, phone equipment, etc.
- SMD-type designed for surface mounting.
- Due to a maximum current tolerance of 2A, can also be used to counter power line noise.

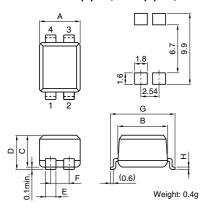
APPLICATIONS

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

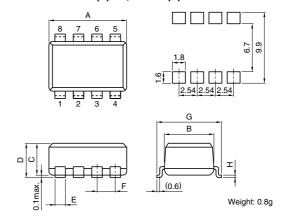


SHAPES AND DIMENSIONS/RECOMMENDED PC BOARD PATTERNS TRANSFER MOLD

ZJYS51R5-2P(T)-01, -2PB(T)-01, -2PL(T)-01



ZJYS51R5-4P(T)-01, -M4PA(T)-01



Dimensions in mm

Part No.	A max.	B max.	C max.	D max.	Е	F	G max.	Н
ZJYS51R5-2P(T)-01, -2PB(T)-01, -2PL(T)*1-01*2	5.5	6.86	4.57	5.08	1.3	2.54±0.25	9±0.5	0.25
ZJYS51R5-4P(T)-01, -M4PA(T)-01	10.5	6.86	4.57	5.08	1.3	2.54±0.25	9±0.5	0.25

^{*1} T means the taping product.

CIRCUIT DIAGRAMS

$ZJYS51R5-2P(T)-01,-2PB(T)-01,\,-2PL(T)-01$



ZJYS51R5-4P(T)-01, -M4PA(T)-01



^{*2} The "-01" designation at the end of the product code indicates conformity to RoHS directive.

[•] 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

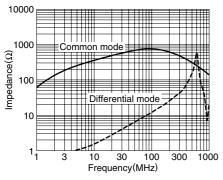
Part No.	ZJYS51R5-2P(T)-01, 4P(T)-01	ZJYS51R5-2PB(T)-01*1	ZJYS51R5-2PL(T)-01*2	ZJYS51R5-M4PA(T)-01	
Rated voltage Edc(V)	50	50	50	50	
Rated current (A)	2	2	2	0.5	
Test voltage Edc(V)	125	125	250	125	
[Between terminals for 5s]	125	123	250		
Insulation resistance (MΩ)	100 min.	100 min.	100 min.	100 min.	
[Between terminals at DC.50V for 1min]	100 min.	100 111111.	100 111111.	100 111111.	
DC resistance (Ω) [Each line]	0.12 max.	0.12 max.	0.10 max.	0.25 max.	
Operating temperature range (°C)	-25 to +85	-25 to +85	-25 to +85	-25 to +85	
Impedance (Ω) [+5 to +35°C]	200 min.[20 to 300MHz]	300 min.[6 to 20MHz]	100 min.[20 to 100MHz]	200 min.[20 to 300MHz]	

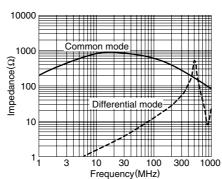
^{*1} The characteristics of low area reform type.

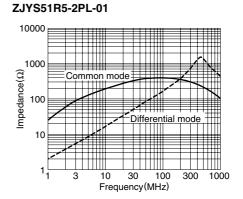
TYPICAL ELECTRICAL CHARACTERISTICS **IMPEDANCE CHARACTERISTICS (for 1 element)**

ZJYS51R5-2P-01, 4P(T)-01

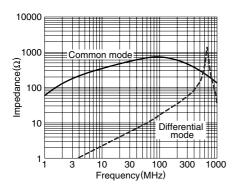
ZJYS51R5-2PB-01



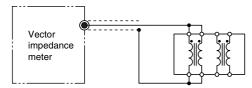




ZJYS51R5-M4PA-01



MEASURING CIRCUIT



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

PACKAGING STYLE AND QUANTITIES

Part No.	Taping (/reel)	Bulk
ZJYS51R5-2P(T)-01	1500 pieces	200 pieces
ZJYS51R5-2PB(T)-01	1500 pieces	200 pieces
ZJYS51R5-2PL(T)-01	1500 pieces	200 pieces
ZJYS51R5-4P(T)-01	1000 pieces	100 pieces
ZJYS51R5-M4PA(T)-01	1000 pieces	100 pieces

[•] All specifications are subject to change without notice.

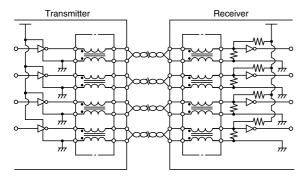
^{*2} Separate winding type (for communications).

[•] The "T" designation at the end of the product code indicates tape mounting.



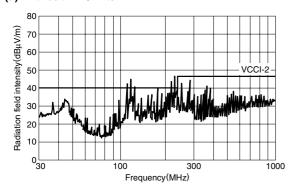
TYPICAL APPLICATION

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

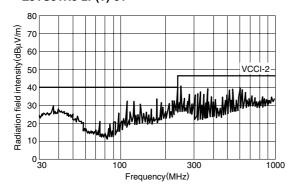


TYPICAL APPLICATION EFFECTS

(a) Without EMC filter



(b) With EMC filter ZJYS51R5-2P(T)-01



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