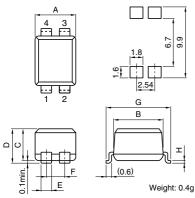
Common Mode Choke Coils for Signal Line SMD

FEATURES

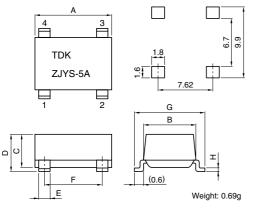
- A common mode filter for distortion-free noise removal from transmitted signals. Optimized for transmission of high quality signals.
- Best filter for countering the common mode noise resulting from data signal processing by PCs, phone equipment, etc.
- SMD-type designed for surface mounting.
- Due to a maximum current tolerance of 5A, can also be used to counter power line noise.
- The ZJYS81R5-2PL is a high inductance common mode filter designed to use with a CAN-BUS.
- The "T" designation at the end of the product code indicates tape mounting.

SHAPES AND DIMENSIONS/RECOMMENDED PC BOARD PATTERNS TRANSFER MOLD

ZJYS51R5-2P(T), -2PB(T), -2PL(T), 5103-2PL(T)



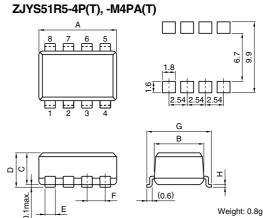
ZJYS5105-2PL(T)



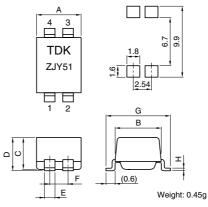
APPLICATIONS

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





ZJYS81R5-2PL25(T)-G01, -2PL51(T)-G01



Dimensions in mm

Part No.	A max.	B max.	C max.	D max.	E	F	G max.	Н
ZJYS51R5-2P(T), -2PB(T), -2PL(T), 5103-2PL(T)*	5.5	6.86	4.57	5.08	1.3	2.54±0.25	9±0.5	0.25
ZJYS51R5-4P(T), -M4PA(T)	10.5	6.86	4.57	5.08	1.3	2.54±0.25	9±0.5	0.25
ZJYS5105-2PL(T)	10.5	7.5	4.57	5.08	1.3	7.62±0.25	9±0.5	0.25
ZJYS81R5-2PL25(T)-G01, -2PL51(T)-G01	6	7.1	4.5	5	1.3	2.54±0.25	9±0.5	0.25

* T means the taping product.

ZJYS Series ZJYS51, ZJYS81 Types

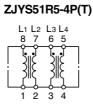
[•] All specifications are subject to change without notice.

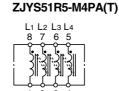
Common Mode Choke Coils for Signal Line SMD

CIRCUIT DIAGRAMS









ZJYS5105-2PL(T)

ZJYS Series ZJYS51, ZJYS81 Types

ELECTRICAL CHARACTERISTICS

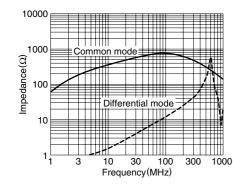
rrt No. ZJYS51R5-2P(T), -2PB(T)*1, -2PL(T)*2, -4P(T)		ZJYS5103-2PL(T)	ZJYS51R5-M4PA(T)		
Rated voltage Edc(V)	50	50	50		
Rated current (A)	2	3	0.5		
Test voltage Edc(V) [Between terminals for 5s]	125	125	125		
Insulation resistance ($M\Omega$) [Between terminals at DC.50V for 1min]	100min.	100min.	100min.		
DC resistance (Ω) [Each line]	0.06max.	0.03max.	0.2max.		
Operating temperature range (°C)	–25 to +85	–25 to +85	–25 to +85		
Impedance (Ω) [+5 to +35°C]	200min.[20 to 300MHz]	100min.[100 to 300MHz]	200min.[20 to 300MHz]		
Part No.	ZJYS5105-2PL(T)	ZJYS81R5-2PL25(T)-G01,	/-2PL51(T)-G01		
Rated voltage Edc(V)	50	80			
Rated current (A)	5	0.5			
Test voltage Edc(V) [Between terminals for 5s]	125	200			
Insulation resistance (M Ω) [Between terminals at DC.50V for 1min]	100min.	100min.			
DC resistance (Ω) [Each line]	0.01max.	0.25/0.3max.			
Operating temperature range (°C)	–25 to +85	-40 to +125			
Impedance (Ω) [+5 to +35°C]	100min.[100 to 300MHz]	600min./1000min.[10 to 10	00MHz]		
*1 The characteristics of low area reform type		-	=		

*1 The characteristics of low area reform type.

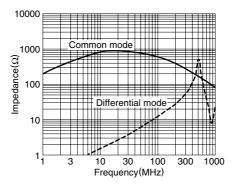
*2 Separate winding type (for communications).

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

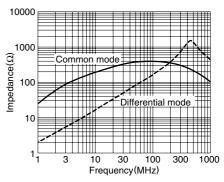
TYPICAL ELECTRICAL CHARACTERISTICS IMPEDANCE CHARACTERISTICS (for 1 element) ZJYS51R5-2P, -4P ZJYS51



ZJYS51R5-2PB

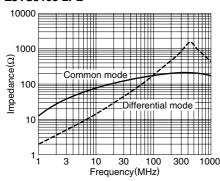


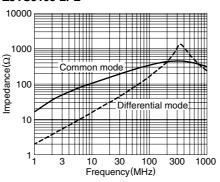
ZJYS51R5-2PL



Common Mode Choke Coils for Signal Line SMD

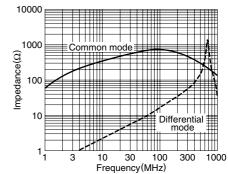
TYPICAL ELECTRICAL CHARACTERISTICS IMPEDANCE CHARACTERISTICS (for 1 element) ZJYS5103-2PL ZJYS5105-2PL



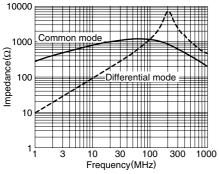


ZJYS51R5-M4PA

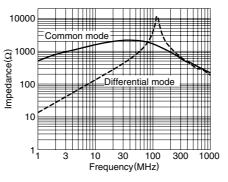
ZJYS Series ZJYS51, ZJYS81 Types



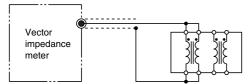
ZJYS81R5-2PL25-G01



ZJYS81R5-2PL51-G01



MEASURING CIRCUIT



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

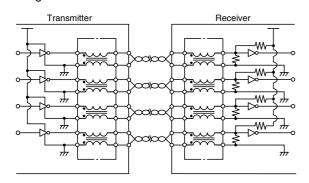
PACKAGING STYLE AND QUANTITIES

Part No.	Taping (/reel)	Bulk	
ZJYS51R5-2P(T)	1500 pieces	200 pieces	
ZJYS51R5-2PB(T)	1500 pieces	200 pieces	
ZJYS51R5-2PL(T)	1500 pieces	200 pieces	
ZJYS5103-2PL(T)	1500 pieces	200 pieces	
ZJYS81R5-2PL25(T)-G01	1500 pieces	200 pieces	
ZJYS81R5-2PL51(T)-G01	1500 pieces	200 pieces	
ZJYS51R5-4P(T)	1000 pieces	100 pieces	
ZJYS51R5-M4PA(T)	1000 pieces	100 pieces	
ZJYS5105-2PL(T)	1000 pieces	100 pieces	

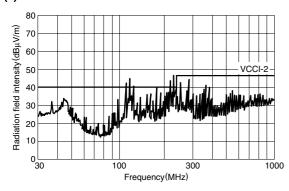
Common Mode Choke Coils for Signal Line SMD

TYPICAL APPLICATION

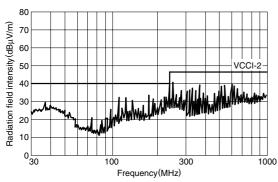
An application example showing how radiation noise is prevented when transmitter and receiver are connected via twisted pair cabling.



TYPICAL APPLICATION EFFECTS (a) Without EMC filter



(b) With EMC filter ZJYS51R5-2P(T), 4P(T)



ZJYS Series ZJYS51, ZJYS81 Types

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 B82723A2802N001
 B82723J2802N001
 B82726S2183N020
 T8114NLT
 RD5122-10-6M0
 RD7147-25-0M7
 B82724J2502U040

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 EXC-24CD201U
 EXC-24CD600U
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 B82730U3162A020

 B82730U3951A020
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 DKFP-6248-02D5
 DKFP-6248-D504
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 ELF-18D214
 ELF-18D217
 ELF-18D217

 I8D218
 ELF-18D227F

 S148640395
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 ELF-18D214
 ELF-18D217
 ELF-18D217