EMC Components

ZJK, ZJKD Series

3-Terminal Filters for Signal Line and DC Power Line SIP

FEATURES

- These SIP type EMC filters provide superior attenuation capabilities from MF to VHF bands. They are particularly effective in the microcomputer frequency range, where they provide attenuation characteristics far superior to tantalum capacitors.
- Its SIP type structure allows a wide variety of applications to IC substates.
- The use of chip capacitors results in a high degree of miniaturization, enabling these parts to be used in high-density circuit board designs.
- Transfer molding is used to strengthen types -00 and -05.

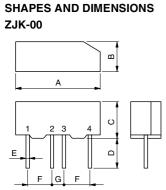
APPLICATIONS

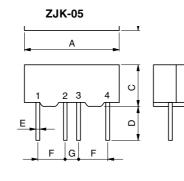
OA equipment (Computers, terminal equipment, word processors, facsimiles, etc.)

FA equipment (Robots, NC manufacturing machineries, process controllers, etc.)

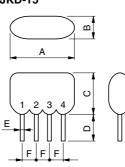
AE equipment (Automotive engine control units, etc.)

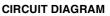
HE equipment (Personal computers and micro computerized digital equipment)

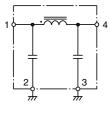




ZJKD-15







Dimensions in mm

Part No.	Α	В	С	D	E	F	G
ZJK51R1-00, 51R5-00, 5103-00	17±1	5±1	8±1	5+1, –2	0.5×0.25t	5±0.3	2.5±0.3
ZJK51R1-05, 51R5-05, 5103-05	12.5max.	4.5max.	8max.	5+0, -2	0.5×0.25t	2.5±0.3	—
ZJKD51R1-15, 51R5-15, 5103-15	11.5max.	4.5max.	8max.	4.5±0.8	0.5×0.3t	2.5±0.3	—
00 and 05 the set Transfermentality	451 01 1	P					

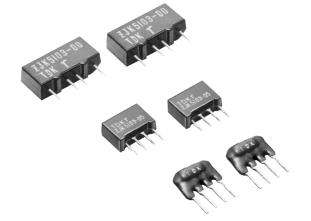
-00 and -05 types:Transfer molding, -15 type: Dip molding

ELECTRICAL CHARACTERISTICS

		ZJK51R1-00	ZJK51R5-00	ZJK5103-00	ZJK51R1-05	ZJK51R5-05	ZJK5103-05
Part No.		20100111000	2010 110 00	20.00.00.00			5 ZJKD5103-15
Rated voltage Edc(V) max.		50	50	50	50	50	50
Rated current(A) max.		0.1	0.5	3	0.1	0.5	3
Withstand voltage Edc(V)		125	125	125	125	125	125
[Between terminal No.1 to 2, No.3 to 4/5s]		125	125	125	125	125	125
Insulation resistance(MΩ)min.[DC. 50V, 1 min]		100	100	100	100	100	100
DC resistance(Ω)max.[Between terminal No.1 to 4]		11	0.45	0.02	11	0.45	0.02
Operating temperature range(°C)		-25 to +85	-25 to +85	-25 to +85	–25 to +85	–25 to +85	-25 to +85
Attenuation frequency range	20dB	0.2 to 200	1 to 200	2 to 200	0.7 to 300	4 to 300	7 to 300
(MHz)[+5 to +35°C]	40dB	0.5 to 30	2 to 30	3 to 30	1.5 to 80	7 to 80	15 to 80
Interchangeable with existing products		ZJK51R1-02 FP51R11 FP51R3	ZJK51R5-01 ZJK51R5-02				

• No application of this series component may exceed any of the above operational criteria.

• All specifications are subject to change without notice.

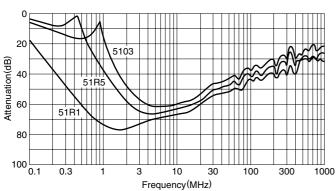


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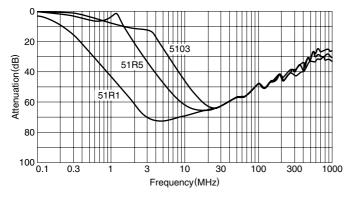
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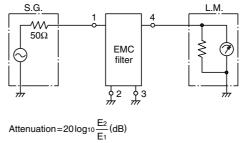
TYPICAL ELECTRICAL CHARACTERISTICS ATTENUATION vs. FREQUENCY CHARACTERISTICS ZJK-00



ZJK-05, ZJKD-15



MEASURING CIRCUIT



E1: Set EMC filter in the circuit E2: Leave EMC filter in the circuit

2, 3: GND terminals

PACKAGING QUANTITIES

ZJK51R1-00	225 pieces	
ZJK51R5-00	225 pieces	
ZJK5103-00	225 pieces	
ZJK51R1-05	250 pieces	
ZJK51R5-05	250 pieces	
ZJK5103-05	250 pieces	
ZJKD51R1-15	500 pieces	
ZJKD51R5-15	500 pieces	
ZJKD5103-15	500 pieces	