

Filters
EMI/EMC
Common-mode choke coil

SMD COMMON-MODE CHOKES

ZCYS series

FEATURES

- This is a common-mode choke coil that can reject noise without distorting the transmission signal.
- Effective to high frequency radiation noise from the interface line of small signals, this component can correspond collectively with multiple signal lines cable.
- A miniaturization has been achieved with 2.5mm max. in height.

APPLICATIONS

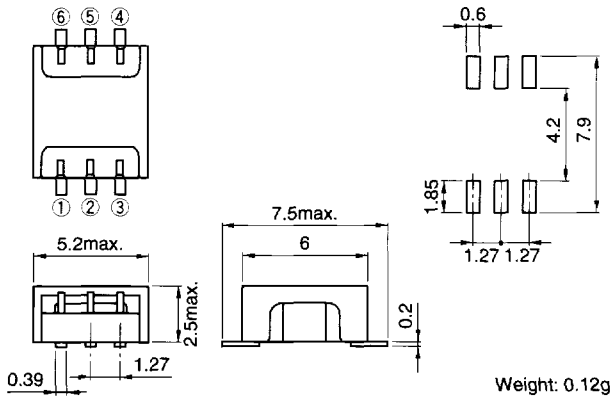
Personal computers, telephone, LAN, ISDN, digital PBX, word processors, game machines, palm size personal computers, CTV, CD-ROM, 8mm video cameras.

TEMPERATURE AND HUMIDITY RANGES

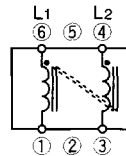
Operating temperature range	-25 to +85°C
Storage temperature range	-40 to +85°C
Operating humidity range	10 to 95%RH (However, the maximum wet-bulb temperature is 38.5°C)

SHAPES AND DIMENSIONS/RECOMMENDED PC BOARD PATTERNS/CIRCUITS

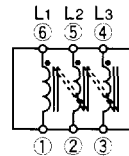
ZCYS51R5-2PAT
ZCYS51R5-M3PAT



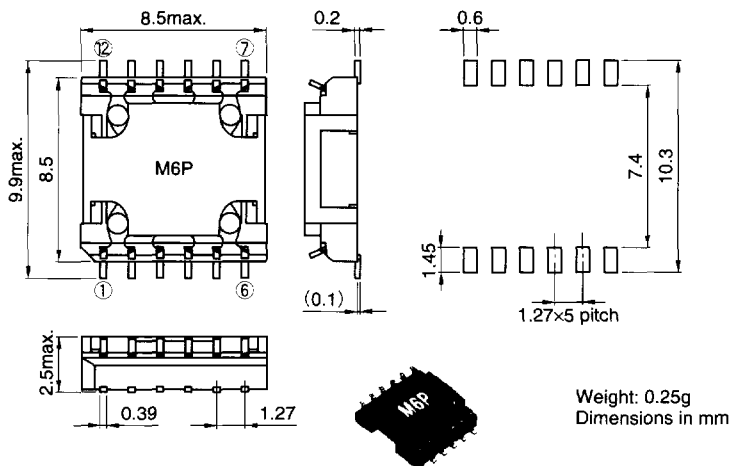
ZCYS51R5-2PAT



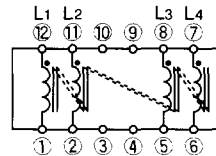
ZCYS51R5-M3PAT



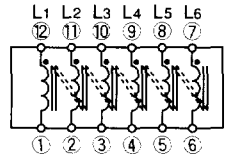
ZCYS51R5-M4PT
ZCYS51R5-M6PT



ZCYS51R5-M4PT



ZCYS51R5-M6PT



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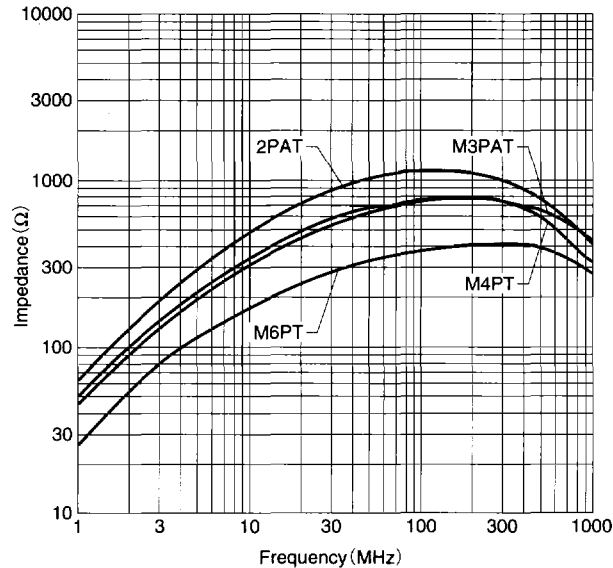
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ZCYS series

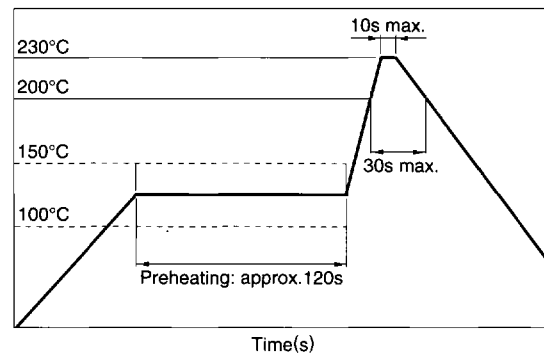
ELECTRICAL CHARACTERISTICS

Part No.	ZCYS51R5-2PAT	ZCYS51R5-M3PAT	ZCYS51R5-M4PT	ZCYS51R5-M6PT
Rated voltage Edc(V)	50	50	50	50
Rated current (A)	0.5	0.5	0.5	0.5
Test voltage Edc(V) [Between terminals for 5 seconds]	125	125	125	125
Insulation resistance (M Ω) [Between terminals at DC.50V for 1 minute]	100min.	100min.	100min.	100min.
DC resistance (Ω) [each line]	0.3max.	0.3max.	0.3max.	0.25max.
Impedance (Ω) [+5 to +35°C]	400min.[20 to 300MHz]	500min.[100MHz]	200min.[50 to 300MHz]	200min.[50 to 300MHz]

TYPICAL ELECTRICAL CHARACTERISTICS IMPEDANCE vs. FREQUENCY CHARACTERISTICS (for 1 element)



RECOMMENDED SOLDERING CONDITIONS REFLOW SOLDERINGS



PACKAGING QUANTITIES (Taping)

Type	Quantities [1 reel]
ZCYS51R5-2PAT	3000 pieces
ZCYS51R5-M3PAT	3000 pieces
ZCYS51R5-M4PT	2000 pieces
ZCYS51R5-M6PT	2000 pieces



Specifications which provide more details for the proper and safe use of the described product are available upon request.

All specifications are subject to change without notice.