

# EMC Components

# ZCYS Series

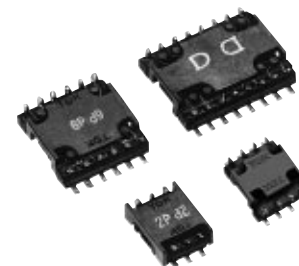
## Common-Mode Choke Coils for Signal Line SMD

### FEATURES

- The ZCYS series common-mode choke coils provide highly effective noise rejection characteristics without distorting the transmission signal.
- Well suited as a countermeasure against high-frequency radiation noise in small signal interface lines, this product is a space-efficient solution for multiple-line cable applications.
- A high level of miniaturization has been achieved with a maximum height of 2.5mm.

### APPLICATIONS

Personal computers, telephones, LANs, ISDNs, digital PBXs, word processors, electronic games, palm-sized computing devices, CTVs, CD-ROM drives, 8mm video cameras.

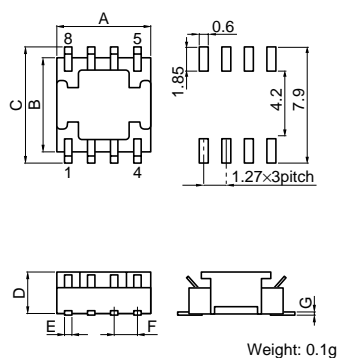
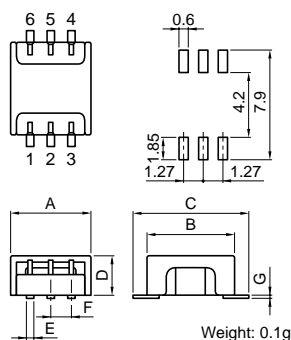


### SHAPES AND DIMENSIONS/RECOMMENDED PC BOARD PATTERNS

#### ZCYS51R5-2PAT

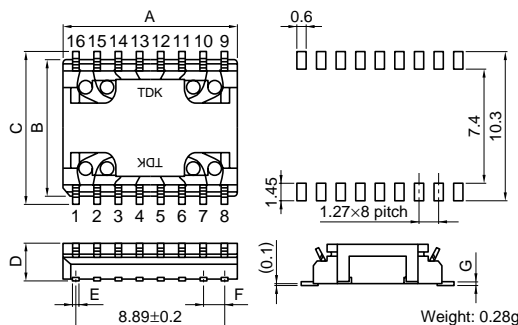
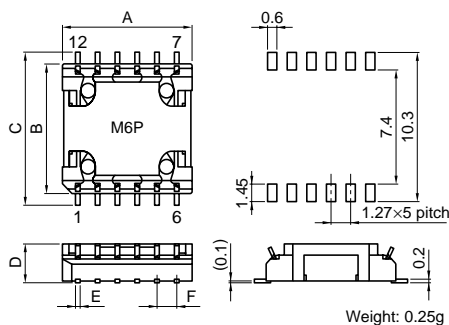
#### ZCYS51R5-M3PAT

#### ZCYS51R5-M4PAT



#### ZCYS51R5-M6PT

#### ZCYS51R5-M8PT



Dimensions in mm

Part No.	A max.	B	C±0.5	D max.	E	F±0.15	G
ZCYS51R5-2PAT*	5.2	6	7	2.5	0.39	1.27	0.2
ZCYS51R5-M3PAT							
ZCYS51R5-M4PAT	5.7	5.7	7	2.5	0.4	1.27	0.2
ZCYS51R5-M6PT	8.5	8.5	9.4	2.5	0.39	1.27	0.2
ZCYS51R5-M8PT	11	8.5	9.4	2.5	0.39	1.27	0.2

\* T means the taping product.

### CIRCUIT DIAGRAMS

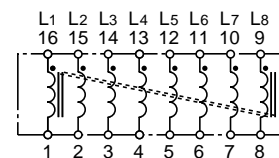
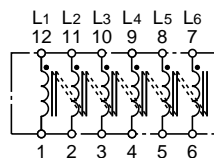
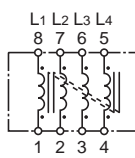
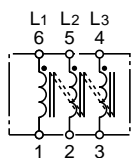
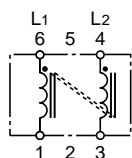
#### ZCYS51R5-2PAT

#### ZCYS51R5-M3PAT

#### ZCYS51R5-M4PAT

#### ZCYS51R5-M6PT

#### ZCYS51R5-M8PT



# EMC Components

## ZCYS Series

### Common-Mode Choke Coils for Signal Line SMD

#### ELECTRICAL CHARACTERISTICS

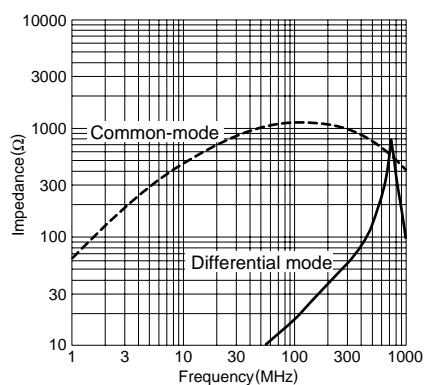
Part No.	ZCYS51R5-2PAT	ZCYS51R5-M3PAT	ZCYS51R5-M4PAT	ZCYS51R5-M6PT	ZCYS51R5-M8PT
Rated voltage Edc(V)	50	50	50	50	50
Rated current (A)	0.5	0.5	0.5	0.5	0.5
Test voltage Edc(V) [Between terminals for 5s]	125	125	125	125	125
Insulation resistance (M $\Omega$ ) [Between terminals at DC.50V for 1min]	100min.	100min.	100min.	100min.	100min.
DC resistance ( $\Omega$ ) [each line]	0.3max.	0.3max.	0.2max.	0.25max.	0.3max.
Operating temperature range(°C)	-25 to +85	-25 to +85	-25 to +85	-25 to +85	-25 to +85
Impedance ( $\Omega$ ) [+5 to +35°C]	400min. [50 to 300MHz]	400min. [50 to 300MHz]	200min. [100 to 500MHz]	200min. [50 to 300MHz]	100min. [100 to 300MHz]

#### TYPICAL ELECTRICAL CHARACTERISTICS

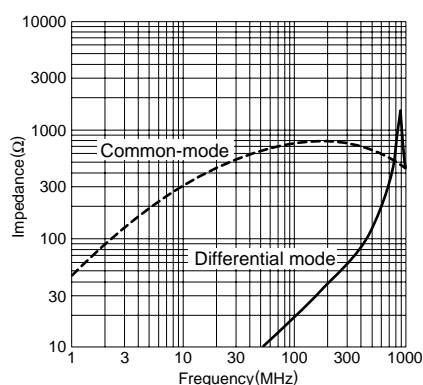
##### IMPEDANCE vs. FREQUENCY CHARACTERISTICS

(for 1 element)

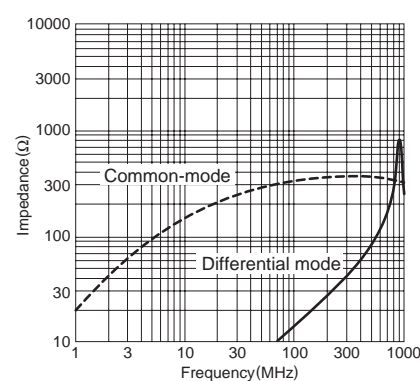
##### ZCYS51R5-2PAT



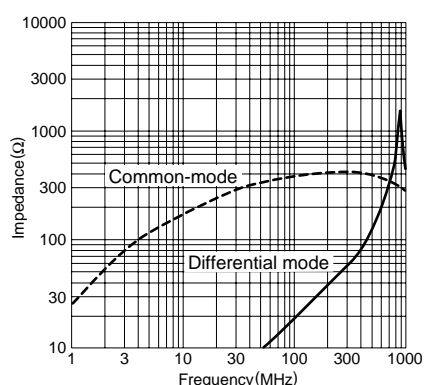
##### ZCYS51R5-M3PAT



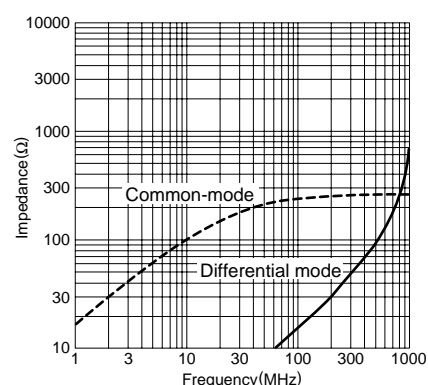
##### ZCYS51R5-M4PAT



##### ZCYS51R5-M6PT



##### ZCYS51R5-M8PT



#### PACKAGING STYLE AND QUANTITIES

Packaging style	Part No.	Quantity
Taping	ZCYS51R5-2PAT	3000 pieces/reel
	ZCYS51R5-M3PAT	3000 pieces/reel
	ZCYS51R5-M4PAT	3000 pieces/reel
	ZCYS51R5-M6PT	2000 pieces/reel
	ZCYS51R5-M8PT	2000 pieces/reel