

# 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. Especially, most available for USB interface circuit.
- 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

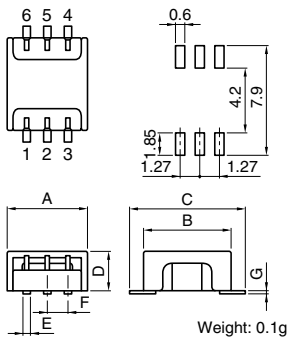
Personal computers, telephones, LANs, ISDNs, digital PBXs, word processors, electronic games, palm-sized computing devices, CTVs, CD-ROM drives, 8mm video cameras.

### SHAPES AND DIMENSIONS/RECOMMENDED PC BOARD PATTERNS

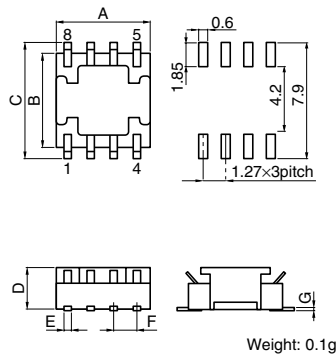
#### ZCYS51R5-2PAT

#### ZCYS51R5-M3PAT

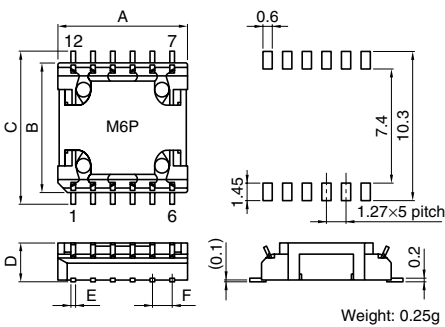
#### ZCYS51R5-M3PA7T



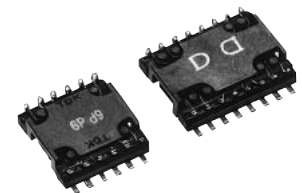
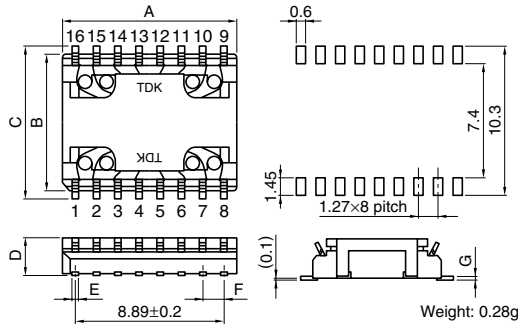
#### ZCYS51R5-M4PAT



#### ZCYS51R5-M6PT



#### ZCYS51R5-M8PT

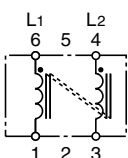


Part No.	A max.	B	C±0.5	D max.	E	F±0.15	G
ZCYS51R5-2PAT*	5.2	6	7	2.5	0.39	1.27	0.2
ZCYS51R5-M3PA(7)T							
ZCYS51R5-M4PAT	5.7	5.7	7	2.5	0.4	1.27	0.2
ZCYS51R5-M6PT	8.5	8.5	9.4	2.5	0.39	1.27	0.2
ZCYS51R5-M8PT	11	8.5	9.4	2.5	0.39	1.27	0.2

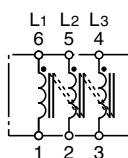
\* T means the taping product.

### CIRCUIT DIAGRAMS

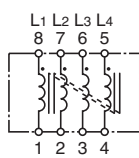
#### ZCYS51R5-2PAT



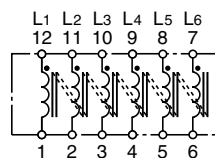
#### ZCYS51R5-M3PA(7)T



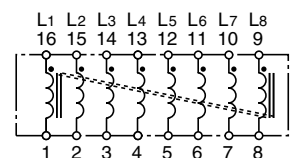
#### ZCYS51R5-M4PAT



#### ZCYS51R5-M6PT



#### ZCYS51R5-M8PT



# EMC Components

## ZCYS Series

### Common Mode Choke Coils for Signal Line SMD

#### ELECTRICAL CHARACTERISTICS

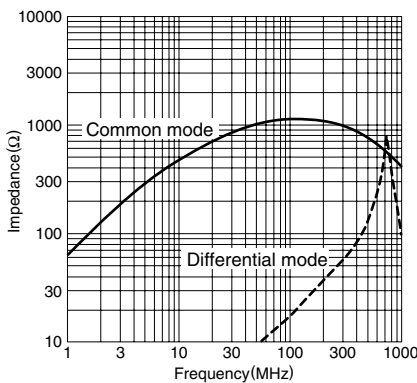
Part No.	ZCYS51R5-2PAT	ZCYS51R5-M3PAT/ -M3PA7T	ZCYS51R5-M4PAT	ZCYS51R5-M6PT	ZCYS51R5-M8PT
Rated voltage Edc(V)	50	50	50	50	50
Rated current (A)	0.5	0.5	0.5	0.5	0.5
Test voltage Edc(V) [Between terminals for 5s]	125	125	125	125	125
Insulation resistance (MΩ) [Between terminals at DC.50V for 1min]	100min.	100min.	100min.	100min.	100min.
DC resistance (Ω) [each line]	0.3max.	0.3max./0.15max.	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 (Ω) [+5 to +35°C]	400min. [50 to 300MHz]	400min.[50 to 300MHz]/ 100min.[100 to 500MHz]	200min. [100 to 500MHz]	200min. [50 to 300MHz]	100min. [100 to 300MHz]

#### TYPICAL ELECTRICAL CHARACTERISTICS

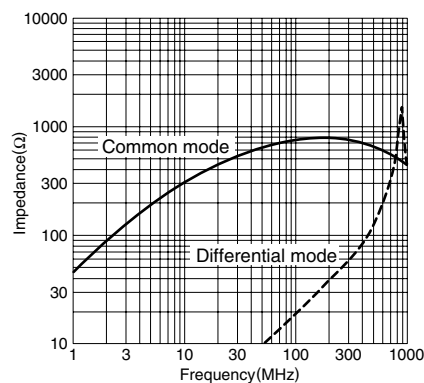
##### IMPEDANCE vs. FREQUENCY CHARACTERISTICS

(for 1 element)

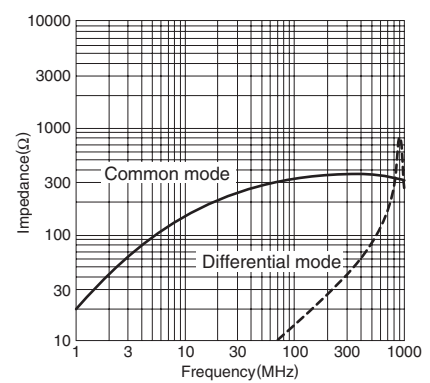
###### ZCYS51R5-2PAT



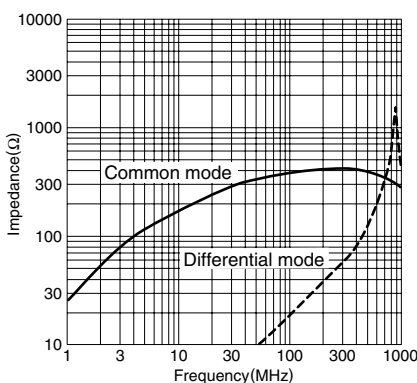
###### ZCYS51R5-M3PAT



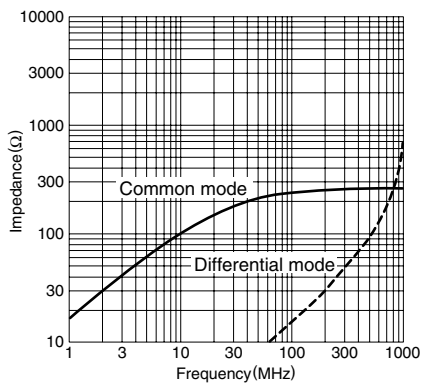
###### ZCYS51R5-M4PAT



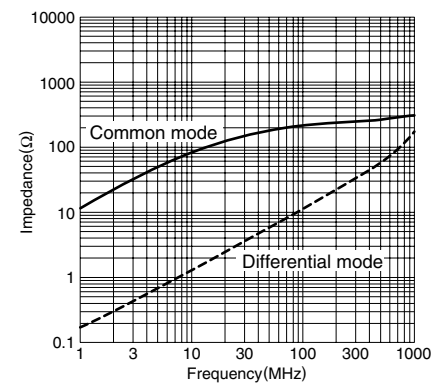
###### ZCYS51R5-M6PT



###### ZCYS51R5-M8PT



###### ZCYS51R5-M3PA7T



#### PACKAGING STYLE AND QUANTITIES

Packaging style	Part No.	Quantity
Taping	ZCYS51R5-2PAT	3000 pieces/reel
	ZCYS51R5-M3PA(7)T	3000 pieces/reel
	ZCYS51R5-M4PAT	3000 pieces/reel
	ZCYS51R5-M6PT	2000 pieces/reel
	ZCYS51R5-M8PT	2000 pieces/reel

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Common Mode Filters / Chokes](#) category:*

*Click to view products by [TDK](#) manufacturer:*

Other Similar products are found below :

[74279408](#) [8109-RC](#) [8121-RC](#) [PE-62911NL](#) [PE-64683](#) [RD5122-6-9M6](#) [RD6137-6-7M5](#) [RD8147-16-3M0](#) [B82722A2801N020](#)  
[B82722J2202N002](#) [B82723A2802N001](#) [B82726S2183N020](#) [T8114NLT](#) [RD5122-10-6M0](#) [RD7147-25-0M7](#) [B82720H0015A025](#)  
[B82724J2502U040](#) [B82725S2103N004](#) [B82725S2602N041](#) [B82731M2401A033](#) [B82792C0506N365](#) [IND-0110](#) [8117-RC](#) [PE-67531](#)  
[B82732R2601B30](#) [B82794C0686N465](#) [2752041447](#) [2752045447](#) [CMS3-11-R](#) [23Z109SMNL-T](#) [009968H](#) [014660H](#) [057966E](#) [CM9900-224](#)  
[CPFC74NP-PS01H2A30](#) [CPFC805NP-100M05](#) [EXC-24CD121U](#) [EXC-24CD201U](#) [EXC-24CD600U](#) [B82723A2602N001](#)  
[B82730U3162A020](#) [B82730U3951A020](#) [DKFP-6248-0102](#) [DKFP-6248-02D5](#) [DKFP-6248-D504](#) [DKFS-6248-02D5](#) [7448640395](#) [ELF-](#)  
[14M080E](#) [ELF-18D214](#) [ELF-18D217](#)