

# Common Mode Filters(SMD) For Power Line

Conformity to RoHS Directive

## ACM-V Series

### FEATURES

- Have achieved miniaturization while keeping characteristics by adoption of exclusive square type closed magnetic cores.
- Due to the low profile design, it is suitable for a surface mount.
- High impedance characteristic has been achieved a superior effect for common mode noise suppression.
- This products have serialized a large current product up to 8A corresponding for various DC power lines.
- Operating temperature range has covered widely from -40 to +125°C.

### APPLICATIONS

Common mode noise countermeasures for DC power lines of electronic control equipment, multi-media equipment for automobiles and various electronic equipment power supply lines.

### PACKAGING STYLE AND QUANTITIES

Packaging style	Type	Quantity
Taping	ACM70V	1500 pieces/reel
	ACM90V	800 pieces/reel
	ACM12V	500 pieces/reel

### PRODUCT IDENTIFICATION

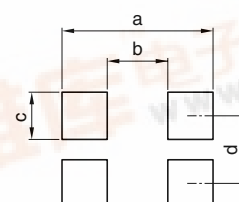
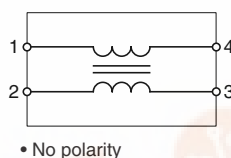
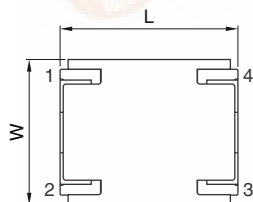
ACM	90V	- 701	- 2PL	- TL	- 00
(1)	(2)	(3)	(4)	(5)	(6)

- (1) Series name
- (2) Dimensional code
- (3) Impedance [at 100MHz]  
701: 700Ω
- (4) Numbers of lines  
2PL: 2 lines
- (5) Packaging style  
TL: ø330mm reel taping
- (6) TDK internal code

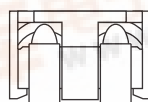
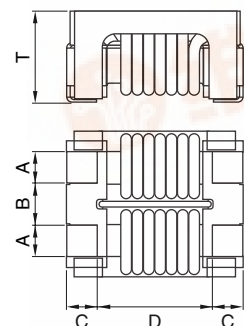
### TEMPERATURE RANGE

Operating	-40 to +125°C
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### SHAPES AND DIMENSIONS/CIRCUIT DIAGRAM/RECOMMENDED PC BOARD PATTERN



Dimensions in mm

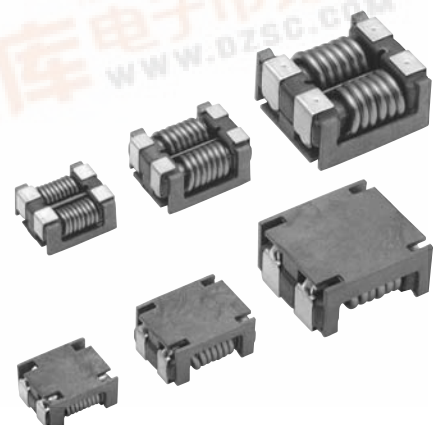


Coplanarity: 0.1max.

Dimensions in mm

Type	a	b	c	d
ACM70V	9.0	4.0	1.5	3.0
ACM90V	11.0	6.0	1.5	3.5
ACM12V	14.0	7.4	2.7	5.2

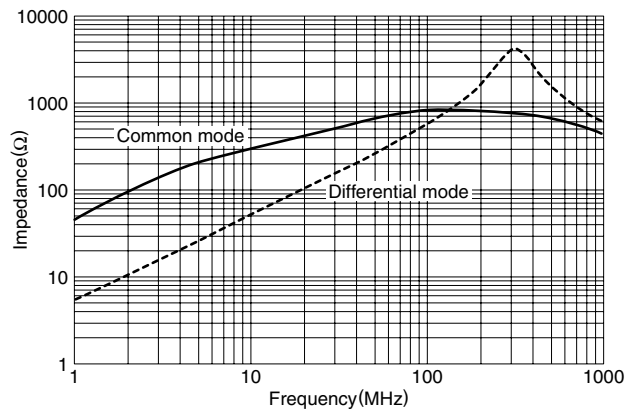
Type	L	W	T	A	B	C	D	Weight
ACM70V	7.0±0.2	6.0±0.2	3.5max.	1.5±0.2	1.5±0.2	1.5±0.2	4.0typ.	0.35g
ACM90V	9.0±0.2	7.0±0.2	4.5max.	1.5±0.2	2.0±0.2	1.5±0.2	6.0typ.	0.82g
ACM12V	12.0±0.3	11.0±0.3	6.0max.	2.7±0.2	2.5±0.2	2.3±0.2	7.4typ.	2.30g



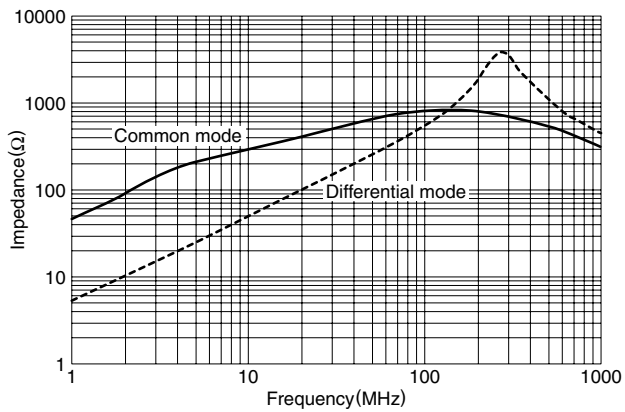
ELECTRICAL CHARACTERISTICS

Part No.	Common mode impedance ( $\Omega$ )typ.[at 100MHz]	DC resistance ( $M\Omega$ )max.	Rated current $I_{dc}$ (A)max.	Rated voltage $E_{dc}$ (V)max.	Insulation resistance ( $M\Omega$ )min.
ACM70V-701-2PL-TL00	700	15	4.0	80	10
ACM90V-701-2PL-TL00	700	10	5.0	80	10
ACM12V-701-2PL-TL00	700	6	8.0	80	10

TYPICAL ELECTRICAL CHARACTERISTICS  
IMPEDANCE vs. FREQUENCY CHARACTERISTICS  
ACM70V-701-2PL



ACM90V-701-2PL



ACM12V-701-2PL

