

Common Mode Filters(SMD)

For power line of automotive ECU

ACM-V series

Type: ACM70V ACM90V ACM12V

Issue date: December 2010

• All specifications are subject to change without notice.

• Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

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Common Mode Filters(SMD) For Power Line

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 automotives and various electronic equipment power supply lines.

PACKAGING STYLE AND QUANTITIES

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

PRODUCT IDENTIFICATION

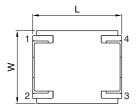
ACM	90V -	701	- 2PL -	ΤL	-
(1)	(2)	(3)	(4)	(5)	(6)

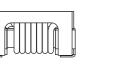
- (1) Series name
- (2) Dimensional code
- (3) Impedance [at 100MHz] 701: 700Ω
- (4) Numbers of lines 2PL: 2 lines
- (5) Packaging style
 - TL: ø330mm reel taping
- (6) TDK internal code

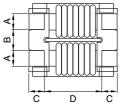
TEMPERATURE RANGE

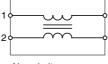
Operating

SHAPES AND DIMENSIONS/CIRCUIT DIAGRAM/RECOMMENDED PC BOARD PATTERN







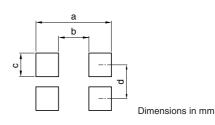


No polarity



Coplanarity: 0.1max. Dimensions in mm

Туре	L	W	Т	А	В	С	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



-40 to +125°C

Туре	а	b	С	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	



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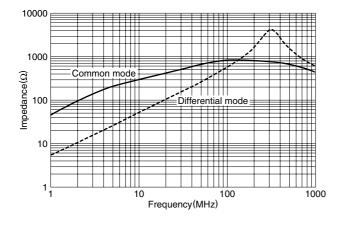
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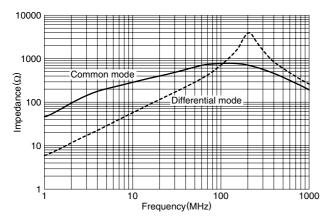
ELECTRICAL CHARACTERISTICS

Part No.	Common mode impedance (Ω)typ.[at 100MHz]	DC resistance (mΩ)max.	Rated current Idc (A)max.	Rated voltage Edc (V)max.	Insulation resistance (MΩ)min.
ACM70V-701-2PL-TL	700	15	4.0	80	10
ACM90V-701-2PL-TL	700	10	5.0	80	10
ACM12V-701-2PL-TL	700	6	8.0	80	10

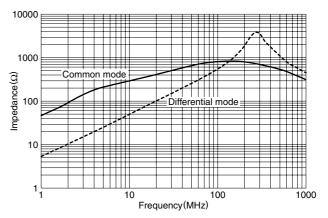
TYPICAL ELECTRICAL CHARACTERISTICS IMPEDANCE vs. FREQUENCY CHARACTERISTICS ACM70V-701-2PL



ACM12V-701-2PL



ACM90V-701-2PL



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