Conformity to RoHS Directive

Common Mode Filters For Power Line

ACM Series ACM4520V

FEATURES

- Several large current products are prepared to correspond to the various applications.
- Low profile and compact shape, it is suited for surface mounting.
- It shows high common mode impedance despite of its compact shape.

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.

TEMPERATURE RANGES

Operating	–40 to +125°C	
Storage(After mount)	–40 to +125°C	

PACKAGING STYLE AND QUANTITIES

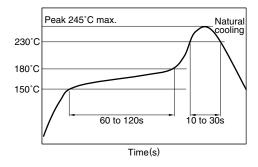
Packaging style	Reel	Quantity	
Taping	ø180mm	800 pieces/reel	
таріпу	ø330mm	2500 pieces/reel	

PRODUCT IDENTIFICATION

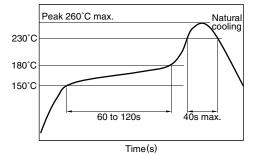
ACM	4520	V -	901 -	2P	- T	00
(1)	(2)	(3)	(4)	(5)	(6)	(7)

- (1) Series name
- (2) Dimensions W×T
- 4520: 4.5×2.0mm
- (3) Product identification number
- (4) Impedance [at 100MHz] 901: 900Ω
- (5) Numbers of lines 2P: 2-line
- (6) Packaging style
- T: ø180mm reel taping TL: ø330mm reel taping
- (7) TDK internal code

RECOMMENDED SOLDERING CONDITIONS RECOMMENDED TEMPERATURE PROFILE FOR LEAD-FREE SOLDER



REFLOW PROFILE FOR SOLDER HEAT RESISTANCE

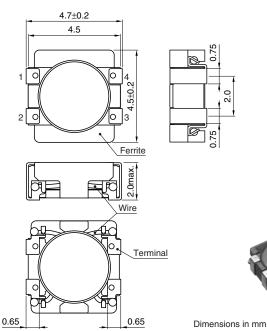


• Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

• All specifications are subject to change without notice.

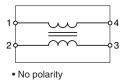
公TDK

SHAPES AND DIMENSIONS

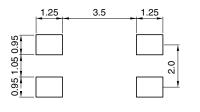




CIRCUIT DIAGRAM



RECOMMENDED PC BOARD PATTERN



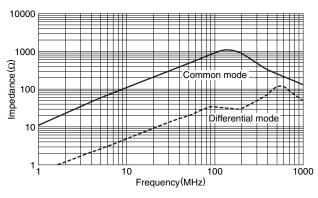
Dimensions in mm



Part No.	Common r (Ω)[at 100	nodeimpedance MHz]	DC resistance (Ω) max.	Rated current Idc (A)max.	Rated voltage Edc	Insulation resistance
	min.	typ.	— [1 line]	125°C	— (V)max.	$(M\Omega)$ min.
ACM4520V-231-2P	180	230	0.05	1.5	50	10
ACM4520V-421-2P	300	420	0.055	1.4	50	10
ACM4520V-901-2P	650	900	0.06	1.2	50	10
ACM4520V-142-2P	1000	1400	0.08	1.0	50	10

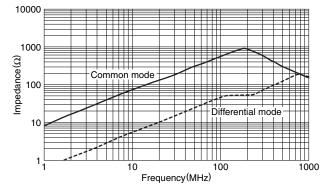
TYPICAL ELECTRICAL CHARACTERISTICS IMPEDANCE vs. FREQUENCY CHARACTERISTICS ACM4520V-231-2P

ACM4520V-901-2P

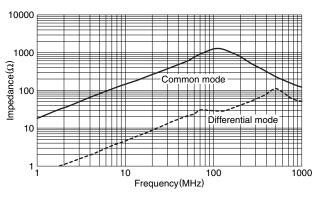


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ACM4520V-421-2P







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Common Mode Filters For Automotive Power Line

ACM-V Series ACM70V, ACM90V, ACM12V

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 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.

TEMPERATURE RANGES

Operating	–40 to +125°C
Storage(After mount)	–40 to +125°C

PACKAGING STYLE AND QUANTITIES

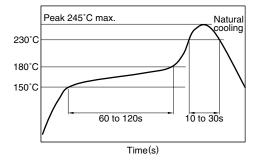
Packaging style	Туре	Quantity	
	ACM70V	1500 pieces/reel	
Taping	ACM90V	800 pieces/reel	
	ACM12V	500 pieces/reel	

PRODUCT IDENTIFICATION

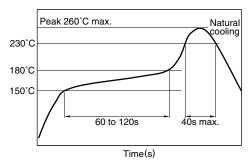
ACM	90V -	701	- 2PL -	TL	- 🗆 🗆
(1)	(2)	(3)	(4)	(5)	(6)

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

RECOMMENDED SOLDERING CONDITIONS RECOMMENDED TEMPERATURE PROFILE FOR LEAD-FREE SOLDER



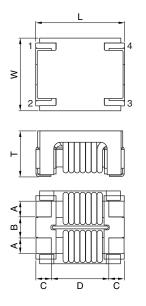
REFLOW PROFILE FOR SOLDER HEAT RESISTANCE

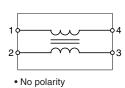


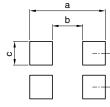
(4/5)

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SHAPES AND DIMENSIONS/CIRCUIT DIAGRAM/RECOMMENDED PC BOARD PATTERN







			Dimens	sions in mm
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



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

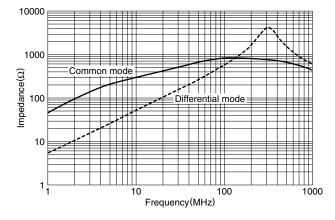
Coplanarity: 0.1max.

ELECTRICAL CHARACTERISTICS

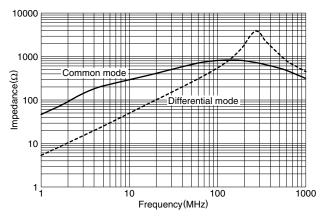
Part No.	Common mode impedance (Ω)typ.[at 100MHz]	DC resistance $(m\Omega)max.$	Rated current Idc (A)max.	Rated voltage Edc (V)max.	Insulation resistance (MΩ)min.
ACM70V-701-2PL-TL	700	15	4.0	80	10
ACM90V-701-2PL-TL	700	10	5.0	80	10
ACM12V-701-2PL-TL	700	6	8.0	80	10

Dimensions in mm

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



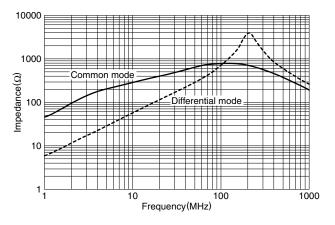
ACM90V-701-2PL



• All specifications are subject to change without notice.

(5/5) 後TDK

TYPICAL ELECTRICAL CHARACTERISTICS IMPEDANCE vs. FREQUENCY CHARACTERISTICS ACM12V-701-2PL



[•] All specifications are subject to change without notice.