

Common Mode Filters(SMD)

For power line

ACM series

Tyne:

iype.	ACIVITUZU	[1000 IIICII]	
	ACM3225	[1210 inch]	
	ACM4532	[1812 inch]	
	ACM7060	[2824 inch]	
	ACM9070	[3628 inch]	
	ACM1211	[4844 inch]	

ACM4520

ACM1513 [6052 inch]

[1808 inch]*

Issue date: December 2010

^{*} Dimensions Code JIS[EIA]

[•] 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.



Common Mode Filters(SMD) For Power Line

Conformity to RoHS Directive

ACM Series ACM4520 Type

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

Radiation noise suppression for power line (DVC, DVD cam, DSC, etc.)

TEMPERATURE RANGE

Operating	−40 to +85°C	
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PACKAGING STYLE AND QUANTITIES

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

PRODUCT IDENTIFICATION

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

- (1) Series name
- (2) Dimensions W×T 4520: 4.5×2.0mm
- (3) Impedance [at 100MHz]

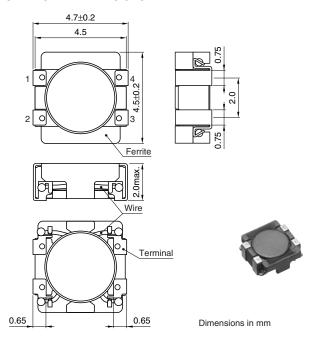
901: 900Ω 142: 1400Ω

(4) Numbers of lines

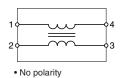
2P: 2-line

- (5) Packaging style
 T: ø180mm reel taping
 - TL: ø330mm reel taping
 - B: Bulk
- (6) TDK internal code

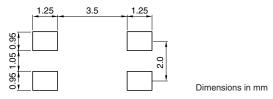
SHAPES AND DIMENSIONS



CIRCUIT DIAGRAM



RECOMMENDED PC BOARD PATTERN



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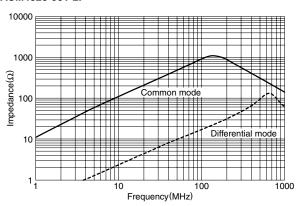
All specifications are subject to change without notice.



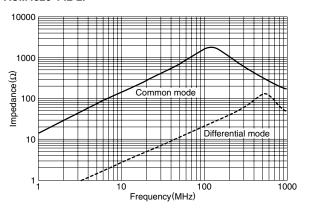
ELECTRICAL CHARACTERISTICS

Part No.	Common impedance (Ω) [at 10]	e	DC resistance (Ω) max. —— [1 line]	Rated current ldc (A)max.	Rated voltage Edc	Insulation resistance $(M\Omega)$ min.
	min.	typ.	[1 mie]	(A)IIIax.	(V)max.	(10152)111111.
ACM4520-901-2P	650	900	0.06	2.0	50	10
ACM4520-142-2P	1000	1400	0.08	1.5	50	10

TYPICAL ELECTRICAL CHARACTERISTICS IMPEDANCE vs. FREQUENCY CHARACTERISTICS ACM4520-901-2P



ACM4520-142-2P



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Common Mode Filters(SMD) For Power Line

Conformity to RoHS Directive

ACM Series ACM3225, 4532, 7060, 9070, 1211, 1513 Types

FEATURES

- A chip-type common mode filter for large current applications. Common mode impedance surpasses 300 to 1000Ω at 100MHz. Noise is greatly suppressed.
- Capable of handling the highest current (up to 10A) of any chiptype common mode filter.
- Height and size have been considered, resulting in a compact and light-weight choke coil. Applicable for the miniaturization required to reduce the size and weight of portable equipment.
- The products contain no lead and also support lead-free soldering.
- This product does not contain regulated substances that are slated to be included in RoHS.

APPLICATIONS

Type ACM3225

ACM4532

3.2±0.2

4.5±0.2

3.2±0.2

Used for power line noise suppression for any electronic devices. Used to counter adapter/battery line noise for relatively large electronic devices such as notebook PCs, stand-alone word processors, etc.

PRODUCT IDENTIFICATION

ACM	7060 -	- 701 -	· 2PL	- TL	
(1)	(2)	(3)	(4)	(5)	(6)

- (1) Series
- (2) Dimensions L×W 7060: 7.0×6.0mm
- (3) Impedance[at 100MHz]

701: 700Ω

(4) Number of lines

2PL: 2-line

(5) Packaging style

T: ø180mm reel taping

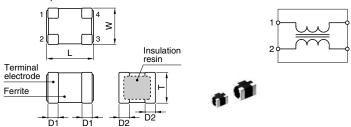
TL: ø330mm reel taping

(6) TDK internal code

TEMPERATURE RANGE

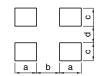
Operating	−25 to +85°C

SHAPES AND DIMENSIONS/CIRCUIT DIAGRAM/RECOMMENDED PC BOARD PATTERN(REFLOW SOLDERING) ACM3225, 4532 TYPES



D2	4			
		Dime	nsions in mn	n
W	Т	D1	D2	_
25+02	2.3 max	0.7	0.7	_

3.0 max.



			Dimei	ISIONS IN	ШП
Гуре	а	b	С	d	
ACM3225	1.5	1.6	1.4	1.1	
ACM4532	1.8	2.3	1.75	1.1	

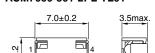
[•] Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

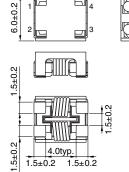
All specifications are subject to change without notice.



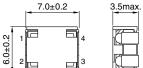
SHAPES AND DIMENSIONS/CIRCUIT DIAGRAM/RECOMMENDED PC BOARD PATTERN(REFLOW SOLDERING) ACM7060 TYPE

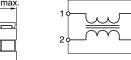
ACM7060-301-2PL-TL01





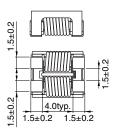
ACM7060-701-2PL-TL01





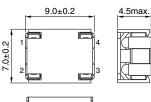


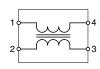
Dimensions in mm

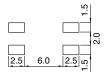




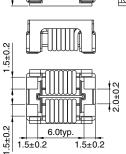
ACM9070 TYPE







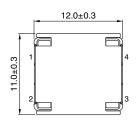
Dimensions in mm

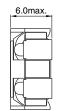


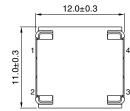
Weight: 0.82g Dimensions in mm



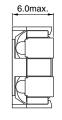
ACM1211 TYPE ACM1211-701-2PL-TL01

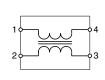


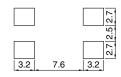




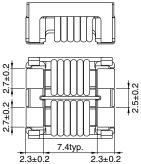
ACM1211-102-2PL-TL01

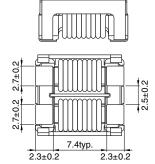






Dimensions in mm





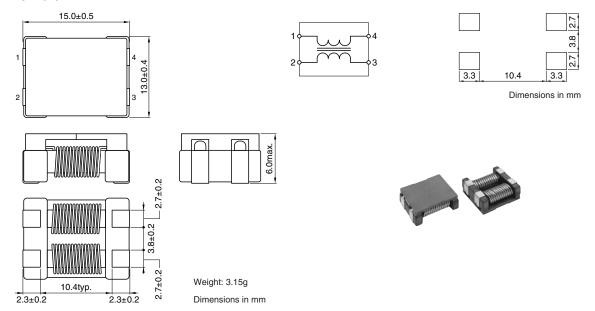
Weight: 2.20g Dimensions in mm



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SHAPES AND DIMENSIONS/CIRCUIT DIAGRAM/RECOMMENDED PC BOARD PATTERN(REFLOW SOLDERING) ACM1513 TYPE



ELECTRICAL CHARACTERISTICS

Part No.	Impedance (Ω)[at 100		DC resistance —— (mΩ)max.	Rated current Idc(A)max.	Insulation resistance $(M\Omega)$ min.	Rated voltage Edc(V)max.
	min.	typ.	(IIISZ)IIIAX.	iuc(A)iiiax.	(10152)111111.	Luc(v)max.
ACM3225-601-2P	450	600	200	1.0	10	50
ACM4532-601-2P	450	600	100	1.5	10	50
ACM4532-801-2P	600	800	100	1.0	10	50
ACM7060-301-2PL	225	300	10	5	10	80
ACM7060-701-2PL	500	700	15	4	10	80
ACM9070-701-2PL	500	700	10	5	10	80
ACM1211-701-2PL	500	700	6	8	10	80
ACM1211-102-2PL	750	1000	14	6	10	80
ACM1513-551-2PL	450	550	4	10	10	80

PACKAGING STYLE AND QUANTITIES

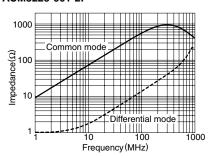
Packaging style	Type	Reel	Quantity
	ACM3225	ø180mm	1000 pieces/reel
	ACIVI3223	ø330mm	5000 pieces/reel
Taping	ACM4532	ø180mm	500 pieces/reel
	ACIVI4332	ø330mm	2000 pieces/reel
	ACM7060	ø330mm	1500 pieces/reel
	ACM9070	ø330mm	800 pieces/reel
	ACM1211	ø330mm	500 pieces/reel
	ACM1513	ø330mm	500 pieces/reel

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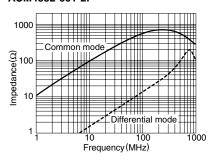


TYPICAL ELECTRICAL CHARACTERISTICS IMPEDANCE vs. FREQUENCY CHARACTERISTICS

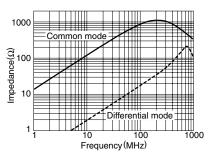
ACM3225-601-2P



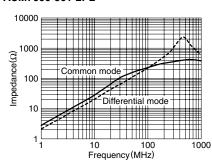
ACM4532-601-2P



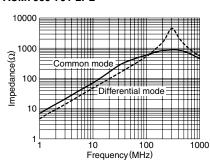
ACM4532-801-2P



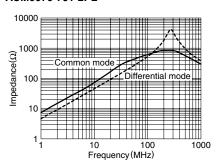
ACM7060-301-2PL



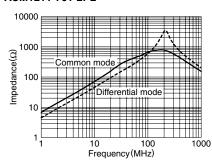
ACM7060-701-2PL



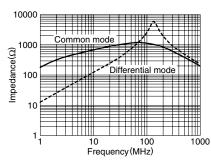
ACM9070-701-2PL



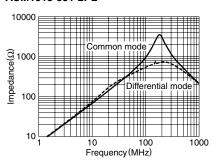
ACM1211-701-2PL



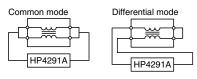
ACM1211-102-2PL



ACM1513-551-2PL



MEASURING CIRCUITS



All specifications are subject to change without notice.