

May 2016

Common Mode Filters

For power line

ACM Series

АСМ1211 туре

ACM1211

[4844 inch]*

* Dimensions Code JIS[EIA]

protection circuit/device or providing backup circuits in your equipment.

REMINDERS FOR USING THESE PRODUCTS

Before using these products, be sure to request the delivery specifications.

SAFETY REMINDERS

Please pay sufficient attention to the warnings for safe designing when using these products.

▲ REMINDERS ○ The storage period is less than 12 months. Be sure to follow the storage conditions (Temperature: 5 to 40°C, Humidity: 10 to 75% RH or less). If the storage period elapses, the soldering of the terminal electrodes may deteriorate. O Do not use or store in locations where there are conditions such as gas corrosion (salt, acid, alkali, etc.). O Before soldering, be sure to preheat components. The preheating temperature should be set so that the temperature difference between the solder temperature and chip temperature does not exceed 150°C. O Soldering corrections after mounting should be within the range of the conditions determined in the specifications. If overheated, a short circuit, performance deterioration, or lifespan shortening may occur. O When embedding a printed circuit board where a chip is mounted to a set, be sure that residual stress is not given to the chip due to the overall distortion of the printed circuit board and partial distortion such as at screw tightening portions. Self heating (temperature increase) occurs when the power is turned ON, so the tolerance should be sufficient for the set thermal design. Carefully lay out the coil for the circuit board design of the non-magnetic shield type. A malfunction may occur due to magnetic interference. ○ Use a wrist band to discharge static electricity in your body through the grounding wire. O Do not expose the products to magnets or magnetic fields. O Do not use for a purpose outside of the contents regulated in the delivery specifications. O The products listed on this catalog are intended for use in general electronic equipment (AV equipment, telecommunications equipment, home appliances, amusement equipment, computer equipment, personal equipment, office equipment, measurement equipment, industrial robots) under a normal operation and use condition. The products are not designed or warranted to meet the requirements of the applications listed below, whose performance and/or quality require a more stringent level of safety or reliability, or whose failure, malfunction or trouble could cause serious damage to society, person or property. If you intend to use the products in the applications listed below or if you have special requirements exceeding the range or conditions set forth in the each catalog, please contact us. (1) Aerospace/Aviation equipment (8) Public information-processing equipment (2) Transportation equipment (cars, electric trains, ships, etc.) (9) Military equipment (3) Medical equipment (10) Electric heating apparatus, burning equipment (4) Power-generation control equipment (11) Disaster prevention/crime prevention equipment (5) Atomic energy-related equipment (12) Safety equipment (6) Seabed equipment (13) Other applications that are not considered general-purpose applications (7) Transportation control equipment When designing your equipment even for general-purpose applications, you are kindly requested to take into consideration securing

公TDK

EMC Components

Common Mode Filters

For power line

Product compatible with RoHS directive Halogen-free Compatible with lead-free solders

Overview of ACM1211 Type

FEATURES

O Chip common mode filter for large current applications.

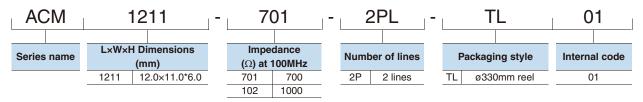
- For each series, there is excellent common mode impedance and noise suppression in a compact case.
- O Compatible with high-density portable devices, which are always being made smaller and lighter, because the height has been reduced.

APPLICATION

O Power line noise countermeasure for various electronic equipment.

O Noise countermeasure for adapter lines and battery lines or larger electronic equipment such as note book PCs and word processors.

PART NUMBER CONSTRUCTION



OPERATING TEMPERATURE RANGE, PACKAGE QUANTITY, PRODUCT WEIGHT

	Temperat	ure range	Reel diameter	Package quantity	Individual weight
Туре	Operating temperature Storage temperature* (°C) (°C)				
			(mm)	(pieces/reel)	(g)
ACM1211	-40 to +85 -40 to +85		ø330	500	2.3

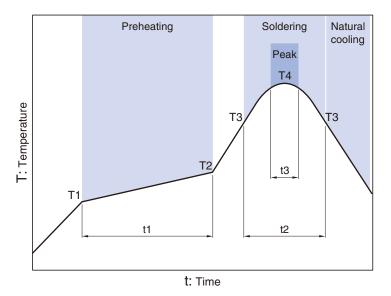
* The Storage temperature range is for after the circuit board is mounted.

RoHS Directive Compliant Product: See the following for more details related to RoHS Directive compliant products. http://product.tdk.com/en/environment/rohs/
Halogen-free: Indicates that CI content is less than 900ppm, Br content is less than 900ppm, and that the total CI and Br content is less than 1500ppm.

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ACM1211 Type

RECOMMENDED REFLOW PROFILE



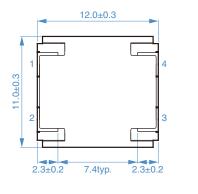
Preheating			Soldering	l	Peak	Peak		
Temp. Time		Time	Temp.	Time	Temp.	Time		
T1	T2	t1	Т3	t2	T4	t3		
150°C	180°C	60 to 120s	230°C	10 to 30s	245°C	5s		

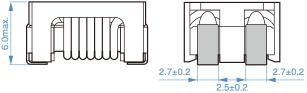
A Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. Please note that the contents may change without any prior notice due to reasons such as upgrading.

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ACM1211 Type

SHAPE & DIMENSIONS

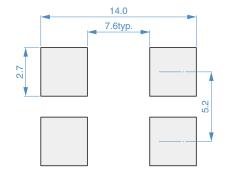




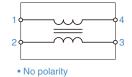


Dimensions in mm

RECOMMENDED LAND PATTERN



CIRCUIT DIAGRAM



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Dimensions in mm

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ACM1211 Type

ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

Common mode impedance		DC resistance	Rated current	Insulation resistance	Rated voltage	Part No.		
[100MHz]		[1 line]						
(Ω) min. (Ω) typ.								
(Ω) min.	(Ω) typ.	(m Ω)max.	(A)max.	(M Ω)min.	(V)max.			
<u>(</u> Ω) min. 500	(Ω) typ. 700	(mΩ)max. 6	(A)max. 8	(M Ω) min. 10	(V)max. 80	ACM1211-701-2PL-TL01		

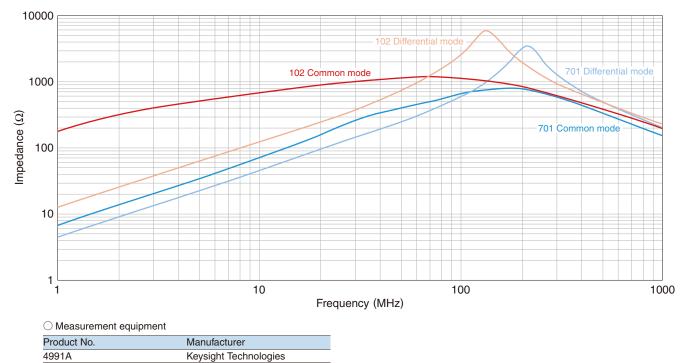
O Measurement equipment

Measurement item	Product No.	Manufacturer
Common mode impedance	4991A	Keysight Technologies
DC resistance	4338A	Keysight Technologies
Insulation resistance	4339A	Keysight Technologies

* Equivalent measurement equipment may be used.

□ IMPEDANCE VS. FREQUENCY CHARACTERISTICS

* Equivalent measurement equipment may be used.



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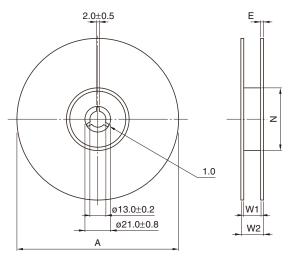
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EMC Components

ACM1211 Type

PACKAGING STYLE

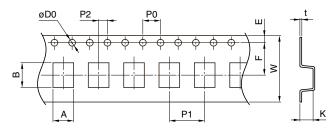
REEL DIMENSIONS



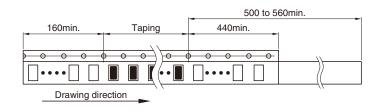
Туре	A	W1	W2	N	E
ACM1211	ø330±2	24.4+2/-0	28.4 typ.	100±1	2 typ.
	-		-	-	

Dimensions in mm

TAPE DIMENSIONS



Dimensions in mm										nsions in mm	
Туре	А	В	øD0	E	F	P0	P1	P2	W	K	t
ACM1211	11.5±0.1	12.5±0.1	1.5+0.1/0	1.75±0.1	11.5±0.1	4.0±0.1	16.0±0.1	2.0±0.1	24.0±0.3	6.4±0.1	0.5±0.05



Dimensions in mm

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