EMC Components

Common mode filters For power line ACM series



公TDK





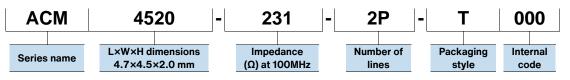
FEATURES

- Ochip common mode filter for large current applications.
- OFor each series, there is excellent common mode impedance and noise suppression in a compact case.
- OLow profile and small size makes it optimal for surface mounting.
- Operating temperature range: -40 to +85°C

APPLICATION

OPower line noise countermeasure for electronic equipment (DVCs, DVD cams, DSCs, etc.).

PART NUMBER CONSTRUCTION



CHARACTERISTICS SPECIFICATION TABLE

Common mode impedance		DC resistance	Rated current	Insulation resistance	Rated voltage	Part No.	
[100MHz]		[1 line]					
(Ω)min.	(Ω)typ.	(mΩ)max.	(A)max.	(MΩ)min.	(V)max.		
180	230	0.05	3.0	2.6	50	10	ACM4520-231-2P-T000
300	420	0.055	2.8	2.4	50	10	ACM4520-421-2P-T000
650	900	0.06	2.3	2.0	50	10	ACM4520-901-2P-T000
1000	1400	0.08	1.7	1.5	50	10	ACM4520-142-2P-T000

Measurement equipment

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

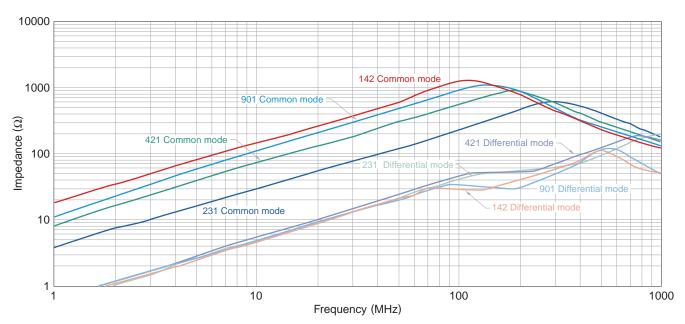
* Equivalent measurement equipment may be used.



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ACM4520 type

IMPEDANCE VS. FREQUENCY CHARACTERISTICS



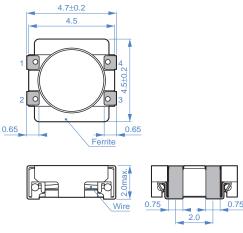
Measurement equipment

Product No.	Manufacturer		
4991A	Keysight Technologies		
Equivalent measurement equipment may be used.			

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. (2/4)

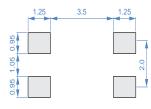
ACM4520 type

SHAPE & DIMENSIONS



Dimensions in mm

RECOMMENDED LAND PATTERN

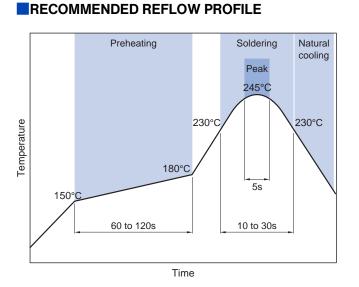


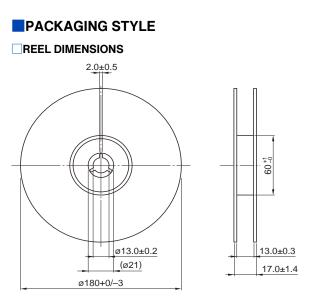
Dimensions in mm

CIRCUIT DIAGRAM



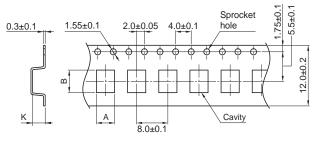
No polarity



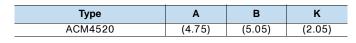


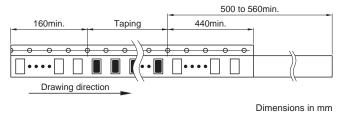
Dimensions in mm





Dimensions in mm





PACKAGE QUANTITY

Package quantity

800 pcs/reel

TEMPERATURE RANGE, INDIVIDUAL WEIGHT

	Operating temperature range	Storage temperature range *	Individual weight		
	–40 to +85 °C	–40 to +85 °C	0.144 g		
*	* The storage temperature range is for after the assembly				

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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 this products

REMINDERS

The storage period is within 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.

- OD not use or store in locations where there are conditions such as gas corrosion (salt, acid, alkali, etc.).
- 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.
- Owhen 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.
- Ocarefully 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.
- Obo not expose the products to magnets or magnetic fields.
- Ob not use for a purpose outside of the contents regulated in the delivery specifications.
- OThe 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

- (2) Transportation equipment (cars, electric trains, ships, etc.)
- (3) Medical equipment
- (4) Power-generation control equipment
- (5) Atomic energy-related equipment
- (6) Seabed equipment

- (7) Transportation control equipment
- (8) Public information-processing equipment
- (9) Military equipment
- (10) Electric heating apparatus, burning equipment
- (11) Disaster prevention/crime prevention equipment
- (12) Safety equipment
- (13) Other applications that are not considered general-purpose applications

When designing your equipment even for general-purpose applications, you are kindly requested to take into consideration securing protection circuit/device or providing backup circuits in your equipment.