EMC Components

Common mode filters For power line **ACM** series



公TDK

ACM4520 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.

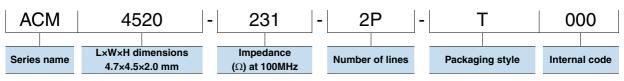
O Low profile and small size makes it optimal for surface mounting.

○ Operating temperature range: -40 to +85°C

APPLICATION

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

PART NUMBER CONSTRUCTION



CHARACTERISTICS SPECIFICATION TABLE

Common n impedance [at 100MH;	•	DC resistance [1 line]	Rated current		Rated voltage	Insulation resistance	Part No.
(Ω)min .	(Ω)typ.	(Ω)max.	(A)max.60°C	(A)max.85°C	(V)max.	(M Ω)min.	
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

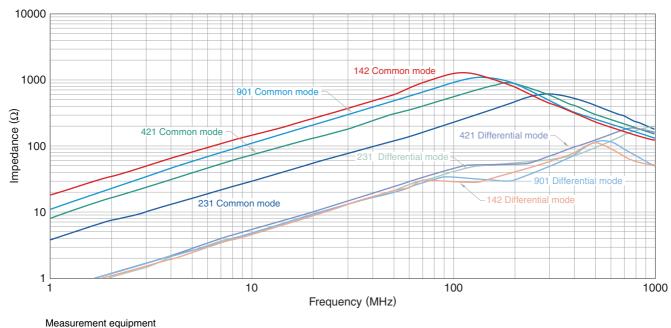
* Equivalent measurement equipment may be used.



20191021

ACM4520 type

■ IMPEDANCE VS. FREQUENCY CHARACTERISTICS

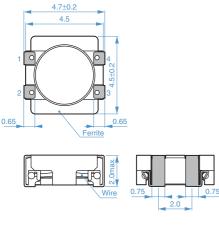


Product No.	Manufacturer		
4991A	Keysight Technologies		

* Equivalent measurement equipment may be used.

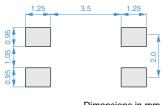
ACM4520 type

SHAPE & DIMENSIONS



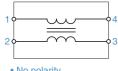
Dimensions in mm

RECOMMENDED LAND PATTERN



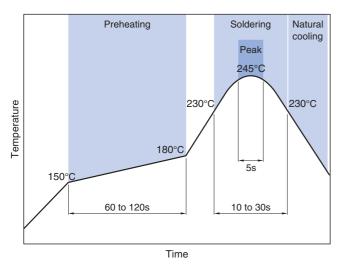
Dimensions in mm

CIRCUIT DIAGRAM

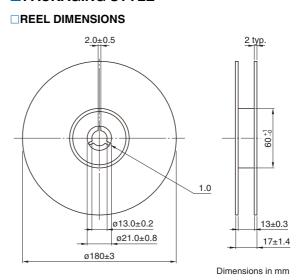


No polarity

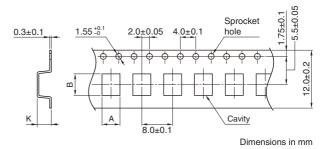
RECOMMENDED REFLOW PROFILE

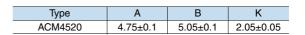


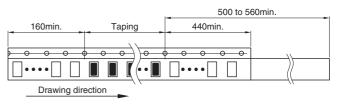
PACKAGING STYLE



TAPE DIMENSIONS







Dimensions in mm

PACKAGE QUANTITY

Package quantity	800 pcs/reel

TEMPERATURE RANGE, INDIVIDUAL WEIGHT

Operating	Storage	Individual
temperature range	temperature range*	weight
–40 to +85 °C	–40 to +85 °C	0.144 g

The storage temperature range is for after the assembly.

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. (3/4)

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.

 The storage period is within 12 months. Be sure to follow the stor less). If the storage period elapses, the soldering of the terminal electroop 		
\bigcirc Do not use or store in locations where there are conditions such as	s gas corrosion (salt, acid, alkali, etc.).	
 Before soldering, be sure to preheat components. The preheating temperature should be set so that the temperature does not exceed 150°C. 	e difference between the solder temperature and chip temperature	
 Soldering corrections after mounting should be within the range of If overheated, a short circuit, performance deterioration, or lifespar 	-	
O When embedding a printed circuit board where a chip is mounted the overall distortion of the printed circuit board and partial distortion		
 Self heating (temperature increase) occurs when the power is tu design. 	rned ON, so the tolerance should be sufficient for the set thermal	
 Carefully lay out the coil for the circuit board design of the non-mag A malfunction may occur due to magnetic interference. 	gnetic shield type.	
\bigcirc Use a wrist band to discharge static electricity in your body through	n the grounding wire.	
\bigcirc Do not expose the products to magnets or magnetic fields.		
\bigcirc Do not use for a purpose outside of the contents regulated in the d	elivery specifications.	
ment, industrial robots) under a normal operation and use conditio The products are not designed or warranted to meet the requireme ity require a more stringent level of safety or reliability, or whose fa person or property.	ment, personal equipment, office equipment, measurement equip-	
 (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 When designing your equipment even for general-purpose application tection circuit/device or providing backup circuits in your 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 	

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