EMC Components



ACP3225 type



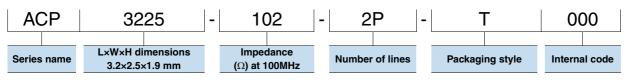
FEATURES

- O Chip type common mode filter for DC power supply lines.
- O Can reduce power consumption and improve EMC suppression because of low direct current resistance and excellent common mode impedance.
- O Compatible with high-density portable devices, which are always being made smaller and lighter, because the height has been reduced.
- Operating temperature range: -40 to +85°C

APPLICATION

- O Power line noise countermeasure for various electronic equipment.
- O Noise countermeasure for AC adapter lines and battery lines for note PCs, portable game machines, and mobile phones.

PART NUMBER CONSTRUCTION



CHARACTERISTICS SPECIFICATION TABLE

Common mod	le impedance	DC resistand	e	Rated current*	Rated voltage	Insulation resistance	Part No.
[at 100MHz]							
(Ω)	Tolerance	(m Ω)typ.	(m Ω)max.	(A)max.	(V)max.	(MΩ)min.	
1000	±25%	50	100	1.5	60	10	ACP3225-102-2P-T000
500	±25%	40	100	2	60	10	ACP3225-501-2P-T000
*Tomporature derating was considered for the rated current							

Temperature derating was considered for the rated current.

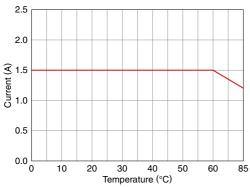
Measurement equipment

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

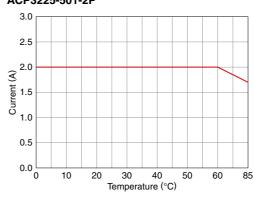
* Equivalent measurement equipment may be used.

TEMPERATURE CHARACTERISTICS (DERATING)

ACP3225-102-2P



ACP3225-501-2P

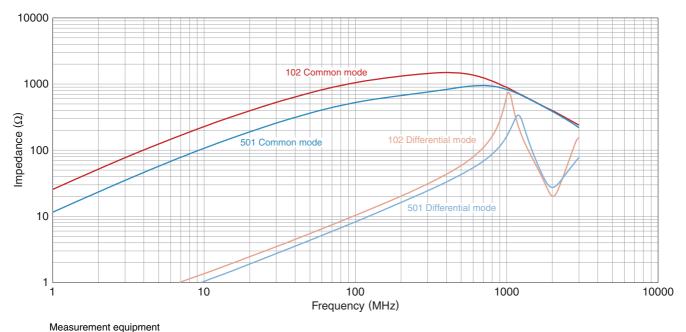




A Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. Please note that the contents may change without any prior notice due to reasons such as upgrading. (1/4)

ACP3225 type

■ IMPEDANCE VS. FREQUENCY CHARACTERISTICS



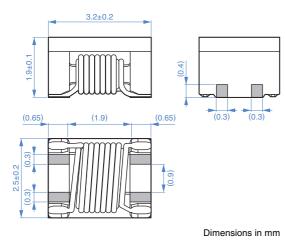
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Product No.	Manufacturer	
4991A	Keysight Technologies	
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* Equivalent measurement equipment may be used.

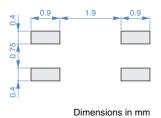
cmf_commercial_power_acp3225_en

ACP3225 type

SHAPE & DIMENSIONS



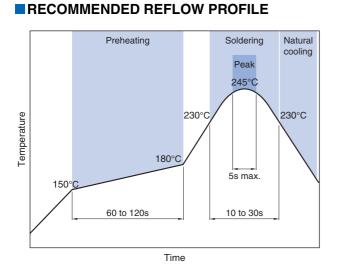
RECOMMENDED LAND PATTERN



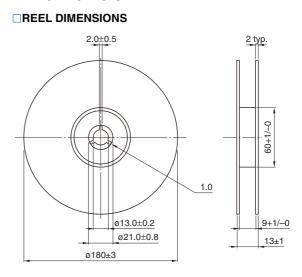
CIRCUIT DIAGRAM



No polarity

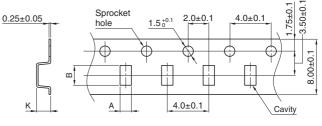


PACKAGING STYLE

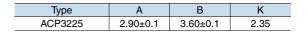


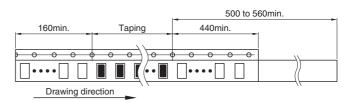
Dimensions in mm

TAPE DIMENSIONS



Dimensions in mm





Dimensions in mm

PACKAGE QUANTITY

Package quantity	1000 pcs/reel
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TEMPERATURE RANGE, INDIVIDUAL WEIGHT

Operating temperature range*	Storage temperature range**	Individual weight		
-40 to +85 °C -40 to +85 °C 60 mg				
Eor actual use use within the temperature derating range shown in page				

For actual use, use within the temperature derating range shown in page 1/4 of this catalog.

** 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.

 The storage period is less than 6 months. Be sure to follow the stora less). If the storage period elapses, the soldering of the terminal electrode 				
O Do not use or store in locations where there are conditions such as				
 Before soldering, be sure to preheat components. The preheating temperature should be set so that the temperature does not exceed 150°C. 	difference between the solder temperature and chip temperature			
 Soldering corrections after mounting should be within the range of the If overheated, a short circuit, performance deterioration, or lifespan st 	-			
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 turn design. 	ed ON, so the tolerance should be sufficient for the set thermal			
 Carefully lay out the coil for the circuit board design of the non-magn A malfunction may occur due to magnetic interference. 	ietic shield type.			
\bigcirc Use a wrist band to discharge static electricity in your body through	the grounding wire.			
\bigcirc Do not expose the products to magnets or magnetic fields.				
O Do not use for a purpose outside of the contents regulated in the del	livery specifications.			
 The products listed on this catalog are intended for use in general ment, home appliances, amusement equipment, computer equipment, industrial robots) under a normal operation and use condition. The products are not designed or warranted to meet the requirement ity require a more stringent level of safety or reliability, or whose failuperson or property. If you intend to use the products in the applications listed below or if set forth in the each catalog, please contact us. 	tent, personal equipment, office equipment, measurement equip- ts of the applications listed below, whose performance and/or qual- ure, malfunction or trouble could cause serious damage to society,			
 (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 applications 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 s, you are kindly requested to take into consideration securing pro- 			

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. (4/4)