EMC Components

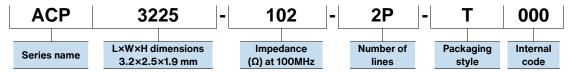
ACP3225 type

FEATURES

- Ochip type common mode filter for DC power supply lines.
- Ocan reduce power consumption and improve EMC suppression because of low direct current resistance and excellent common mode impedance.
- Ocompatible 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

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

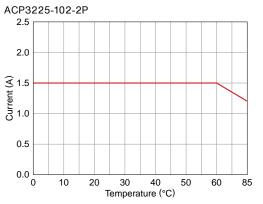
PART NUMBER CONSTRUCTION

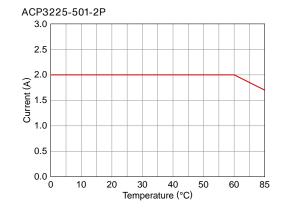


CHARACTERISTICS SPECIFICATION TABLE

Common mode impedance [at 100MHz]		DC resistance		Rated current *	Rated voltage	Insulation resistance	Part No.	
- (Ω)	Tolerance	(mΩ)typ	(mΩ)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	
* Temperature derating was considered for the rated current.								

TEMPERATURE CHARACTERISTICS (DERATING)





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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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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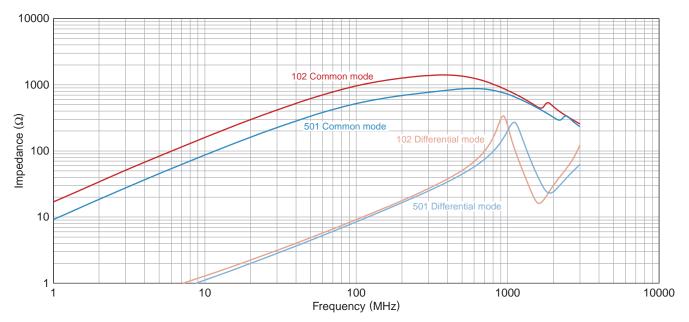
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ACP3225 type

IMPEDANCE VS. FREQUENCY CHARACTERISTICS



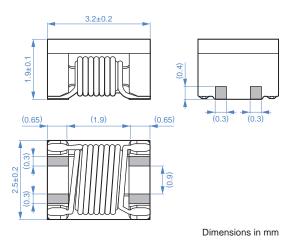
Measurement equipment

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

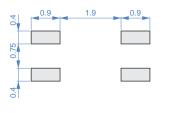
A Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. Please note that the contents may change without any prior notice due to reasons such as upgrading. (2/4)

ACP3225 type

SHAPE & DIMENSIONS

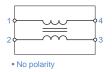


RECOMMENDED LAND PATTERN

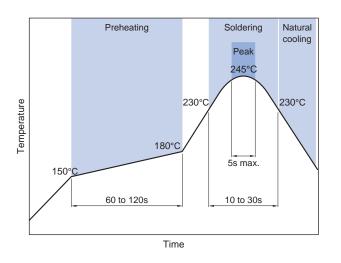


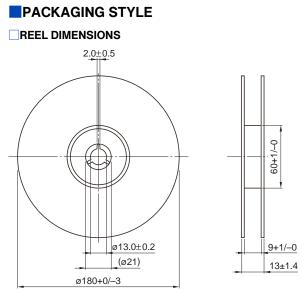
Dimensions in mm

CIRCUIT DIAGRAM



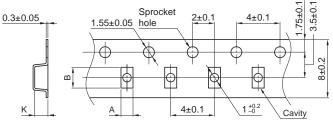
RECOMMENDED REFLOW PROFILE



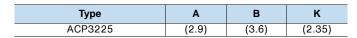


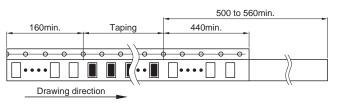
Dimensions in mm

TAPE DIMENSIONS



Dimensions in mm





Dimensions in mm

PACKAGE QUANTITY

Package quantity

1000 pcs/reel

TEMPERATURE RANGE, INDIVIDUAL WEIGHT

Operating	Storage	Individual
temperature range *	temperature range **	weight
–40 to +85 °C	–40 to +85 °C	60 mg

* 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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EMC Components

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 6 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.

- ODo 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.
- Carefully lay out the coil for the circuit board design of the non-magnetic shield type. A malfunction may occur due to magnetic interference.
- OUse a wrist band to discharge static electricity in your body through the grounding wire.
- ODo not expose the products to magnets or magnetic fields.
- ODo not use for a purpose outside of the contents regulated in the delivery specifications.
- 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

- (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.