

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









ACP3225 type











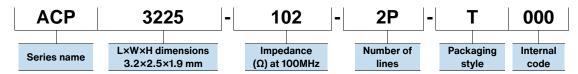
FEATURES

- Ohip 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.
- 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

- 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

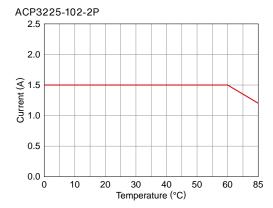


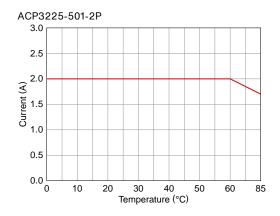
CHARACTERISTICS SPECIFICATION TABLE

Commo	n mode impedance	DC resist	ance	Rated current *	Rated voltage	Insulation resistance	Part No.
[at 100M	lHz]						
(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	Kevsight Technologies

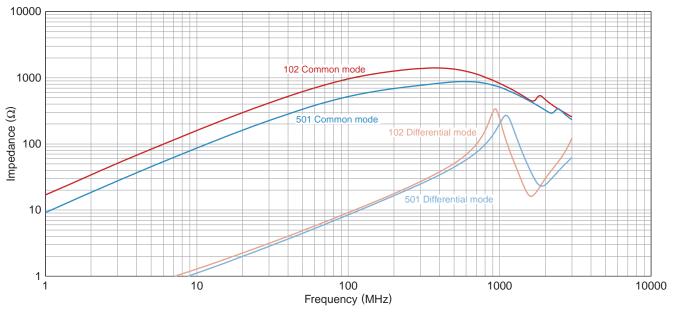
^{*} Equivalent measurement equipment may be used.





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■IMPEDANCE VS. FREQUENCY CHARACTERISTICS



Measurement equipment

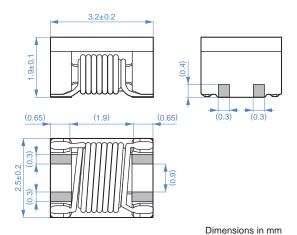
Product No.	Manufacturer	
4991A	Keysight Technologies	

^{*} Equivalent measurement equipment may be used.

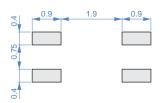


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SHAPE & DIMENSIONS

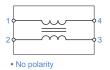


RECOMMENDED LAND PATTERN

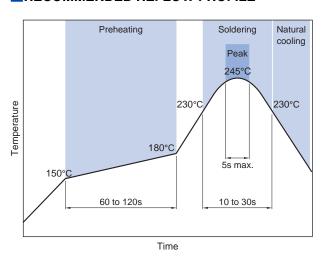


Dimensions in mm

CIRCUIT DIAGRAM

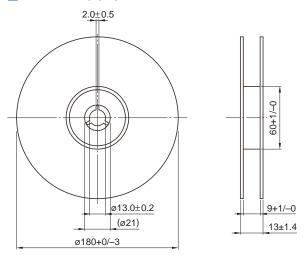


RECOMMENDED REFLOW PROFILE



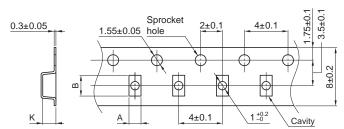
PACKAGING STYLE

REEL DIMENSIONS



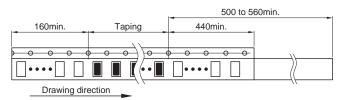
Dimensions in mm

TAPE DIMENSIONS



Dimensions in mm

Туре	Α	В	K
ACP3225	(2.9)	(3.6)	(2.35)



Dimensions in mm

PACKAGE QUANTITY

Package quantity	1000 pcs/reel

TEMPERATURE RANGE, INDIVIDUAL WEIGHT

Operating temperature range *	Storage temperature range **	Individual 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.

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 RH or less).	
If the storage period elapses, the soldering of the terminal elec	·
ODo not use or store in locations where there are conditions suc	h as gas corrosion (salt, acid, alkali, etc.).
Soldering corrections after mounting should be within the rang If overheated, a short circuit, performance deterioration, or life	·
When embedding a printed circuit board where a chip is mount due to the overall distortion of the printed circuit board and pa	
Self heating (temperature increase) occurs when the power is t thermal design.	turned ON, so the tolerance should be sufficient for the set
Carefully lay out the coil for the circuit board design of the non A malfunction may occur due to magnetic interference.	-magnetic shield type.
Ouse a wrist band to discharge static electricity in your body three	ough the grounding wire.
ODo not expose the products to magnets or magnetic fields.	
On not use for a purpose outside of the contents regulated in the	he delivery specifications.
The products listed on this catalog are intended for use in gene equipment, home appliances, amusement equipment, compute measurement equipment, industrial robots) under a normal ope	er equipment, personal equipment, office equipment,
The products are not designed or warranted to meet the require or quality require a more stringent level of safety or reliability, damage to society, person or property.	ements of the applications listed below, whose performance and or whose failure, malfunction or trouble could cause serious
If you intend to use the products in the applications listed belo conditions set forth in the each catalog, please contact us.	w or if you have special requirements exceeding the range or
(1) Aerospace/aviation equipment	(7) Transportation control equipment
(2) Transportation equipment (cars, electric trains, ships, etc.)	(8) Public information-processing equipment

- (3) Medical equipment
- (4) Power-generation control equipment
- (5) Atomic energy-related equipment
- (6) Seabed 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.