

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Common Mode Filters

For power line

ACP Series

ACP3225 туре

ACP3225

[1210 inch]*

* Dimensions Code JIS[EIA]



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 these products.

⚠ REMINDERS	
The storage period is less than 6 months. Be sure to follow the storage conditions (Temperature: 5 to 40°C, Humidity: 10 to 75% RH less). If the storage period elapses, the soldering of the terminal electrodes may deteriorate.	l or
On not use or store in locations where there are conditions such as gas corrosion (salt, acid, alkali, etc.).	
Before soldering, be sure to preheat components. The preheating temperature should be set so that the temperature difference between the solder temperature and chip temperature does not exceed 150°C.	е
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.	
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.	Ю.
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.	
Use a wrist band to discharge static electricity in your body through the grounding wire.	
Do not expose the products to magnets or magnetic fields.	
Do 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 condition.	nns

- (1) Aerospace/Aviation equipment
- (2) Transportation equipment (cars, electric trains, ships, etc.)
- (3) Medical equipment
- (4) Power-generation control equipment

set forth in the each catalog, please contact us.

- (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.



Common Mode Filters

For power line

Product compatible with RoHS directive
Halogen-free
Compatible with lead-free solders

Overview of ACP3225 Type

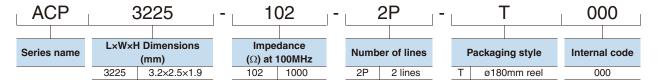
FEATURES

- Ohip type common mode filter for DC power supply lines.
- Can 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.

APPLICATION

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

PART NUMBER CONSTRUCTION



■ OPERATING TEMPERATURE RANGE, PACKAGE QUANTITY, PRODUCT WEIGHT

	Temperat	ure range	Reel diameter	Package quantity	Individual weight
Туре	Operating temperature	Storage temperature*			
	(°C)	(°C)	(mm)	(pieces/reel)	(g)
ACP3225	-40 to +85	-40 to +85	ø180	1.000	60

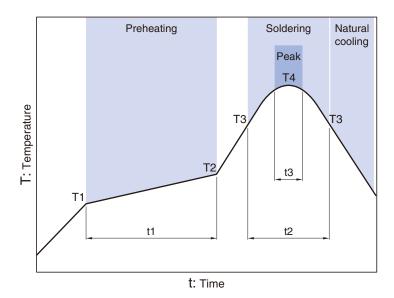
^{*} The Storage temperature range is for after the circuit board is mounted.

RoHS Directive Compliant Product: See the following for more details related to RoHS Directive compliant products. http://product.tdk.com/en/environment/rohs/

O Halogen-free: Indicates that CI content is less than 900ppm, Br content is less than 900ppm, and that the total CI and Br content is less than 1500ppm.



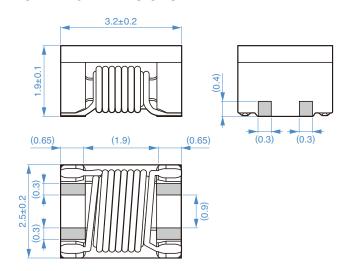
■ RECOMMENDED REFLOW PROFILE



Preheating		Soldering	Soldering		Peak		
Temp.		Time	Temp.	Time	Temp.	Time	
T1	T2	t1	Т3	t2	T4	t3	
150°C	180°C	60 to 120s	230°C	10 to 30s	245°C	5s max.	



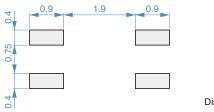
■SHAPE & DIMENSIONS





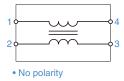
Dimensions in mm

■ RECOMMENDED LAND PATTERN



Dimensions in mm

CIRCUIT DIAGRAM



hease 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.



ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

Common mode impedance		DC resistan	DC resistance		Rated voltage	Insulation resistance	Part No.
[at 100MHz]							
(Ω)	Tolerance	(m Ω)typ.	(m Ω)max.	(A)max.	(V)max.	(M Ω)min.	
1000	±25%	50	100	1.5	60	10	ACP3225-102-2P-T000
500	±25%	40	100	2	60	10	ACP3225-501-2P-T000

 $[\]ensuremath{^{*}}$ Temperature derating was considered for the rated current.

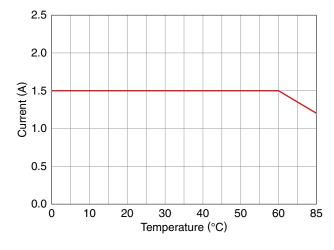
O Measurement equipment

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

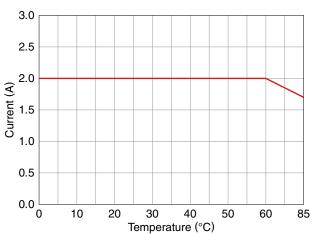
^{*} Equivalent measurement equipment may be used.

\square TEMPERATURE CHARACTERISTICS (DERATING)





ACP3225-501-2P

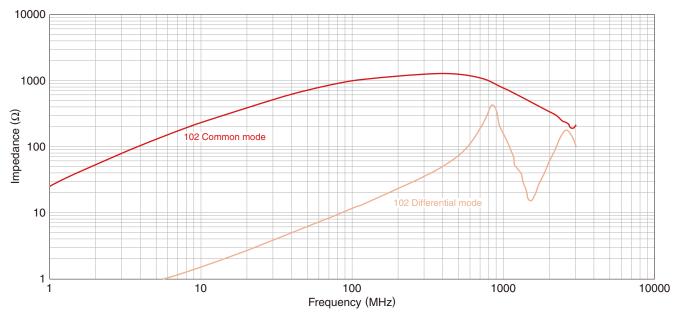


Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. Please note that the contents may change without any prior notice due to reasons such as upgrading.



ELECTRICAL CHARACTERISTICS

☐ IMPEDANCE VS. FREQUENCY CHARACTERISTICS



 $\bigcirc \ {\bf Measurement\ equipment}$

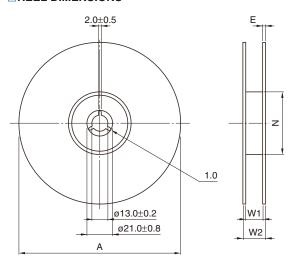
Product No.	Manufacturer
4991A	Keysight Technologies

^{*} Equivalent measurement equipment may be used.



■PACKAGING STYLE

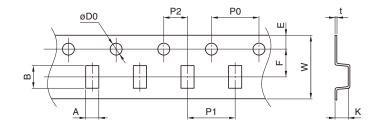
REEL DIMENSIONS



Type	Α	W1	W2	N	Е
ACP3225	ø180±3	9+1/-0	13±1	60+1/-0	2 typ.

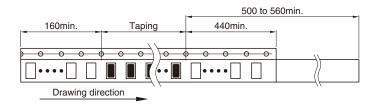
Dimensions in mm

TAPE DIMENSIONS



Dimensions in mm

Type	Α	В	øD0	Е	F	P0	P1	P2	W	K	t
ACP3225	2.90±0.1	3.60±0.1	1.5+0.1/0	1.75±0.1	3.50±0.1	4.0±0.1	4.0±0.1	2.0±0.1	8.00±0.1	2.35	0.25±0.05



Dimensions in mm