

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 automobile signal line

ACT series

ACT1210L-201 type

ACT1210L-201 [1210 inch]* (Ethernet)

* 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 12 months. Be sure to follow the storage conditions (Temperature: 5 to 40°C, Humidity: 10 to 75% RF or less).
If the storage period elapses, the soldering of the terminal electrodes may deteriorate.
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.
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.
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.
On not expose the products to magnets or magnetic fields.
On 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 applications are not designed or warranted to meet the requirements of the applications are translated as a serious degree of the serious degree of th
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

- (1) Aerospace/Aviation equipment
- (2) Transportation equipment (electric trains, ships, etc.)

set forth in the each catalog, please contact us.

- (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.



Common Mode Filters

For automobile signal line

Product compatible with RoHS directive
Halogen-free
Compatible with lead-free solders
AEC-Q200

Overview of ACT1210L-201 type

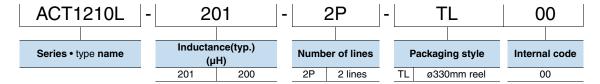
FEATURES

- Ocompact products (3225 size), whose characteristics are equivalent to that of conventional products (ACT45L).
- Ocommon mode filters for automotive Ethernet, compatible with an operating temperature range of -40 to +125°C.
- Ethernet for ACT1210L by unique method, maintenance and L high 200μH is a product which realized high Characterization of mode conversion characteristics Scd21.

APPLICATION

Ethernet system.

■ PART NUMBER CONSTRUCTION



■ OPERATING TEMPERATURE RANGE, PACKAGE QUANTITY, PRODUCT WEIGHT

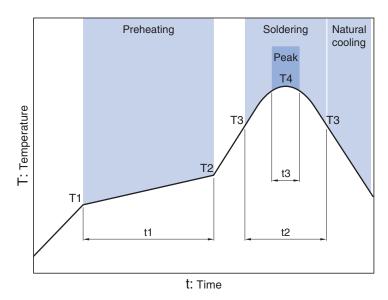
Туре	Temperature range Operating temperature	Package quantity	Individual weight		
	(°C)	(pieces/reel)	(g)		
ACT1210L-201	-40 to +125	6,000	0.075		

RoHS Directive Compliant Product: See the following for more details.https://product.tdk.com/info/en/environment/rohs/index.html

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.



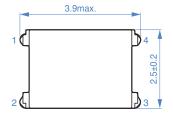
■ RECOMMENDED REFLOW PROFILE

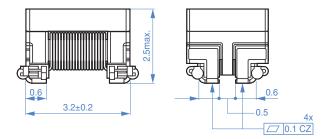


Preheating Soldering Peak Temp. Temp. Time Time Temp. Time T1 T2 t3 T3 **T4** 150°C 180°C 60 to 120s 230°C 245°C 40s max. 5s



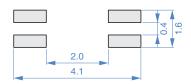
■SHAPE & DIMENSIONS





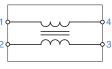
Dimensions in mm

■ RECOMMENDED LAND PATTERN



Dimensions in mm

CIRCUIT DIAGRAM



No polarity

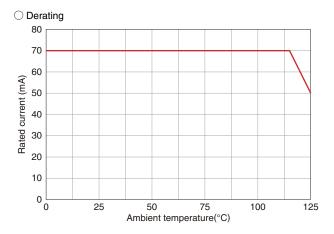
A Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. Please note that the contents may change without any prior notice due to reasons such as upgrading.



ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

Common mode inductance		DC resistance	Insulation resistance	Rated current	Rated voltage	Part No.
[100kHz]						
(μH)	Tolerance	(Ω) max.	(M Ω)min.	(mA)max.	(V)max.	
(μι ι)	Tolerance	(52)IIIax.	(10152)111111.	(IIIA)IIIax.	(V)IIIax.	



O Measurement equipment

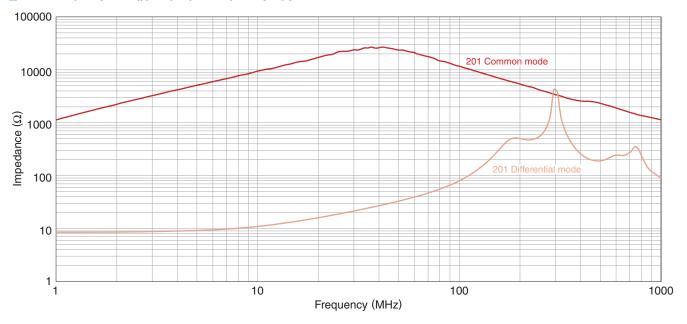
Measurement item	Product No.	Manufacturer
Common mode inductance	4294A	Keysight Technologies
DC resistance	4338A	Keysight Technologies
Insulation resistance	4339A	Keysight Technologies

^{*} Equivalent measurement equipment may be used.



ELECTRICAL CHARACTERISTICS

☐ IMPEDANCE VS. FREQUENCY CHARACTERISTICS



O Measurement equipment

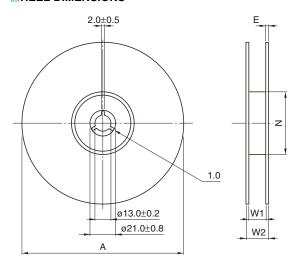
Product No.	Manufacturer
4991A	Keysight Technologies

^{*} Equivalent measurement equipment may be used.



■PACKAGING STYLE

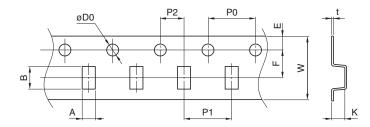
□REEL DIMENSIONS



Type	Α	W1	W2	N	Е
ACT1210L-201	ø330±2	13.5±0.5	17.5±1	100±1	2 typ.

Dimensions in mm

TAPE DIMENSIONS



Dimensions in mm

Type	Α	В	øD0	E	F	P0	P1	P2	W	K	t
ACT1210L-201	2.85±0.1	4.2±0.1	1.5+0.1/-0	1.75±0.1	5.5±0.05	4±0.1	4±0.1	2±0.05	12+0.3/-0.1	2.7±0.1	0.35±0.1