

Common mode filters

For high-speed differential signal line, general differential signal line **ALC** series









ALC2012 type













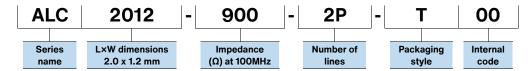
FEATURES

- Obownsized wound type chip common mode filter that maintains required common mode filter characteristics.
- Obifferential mode impedance is suppressed, so there is virtually no affect on high speed signals.
- Operating temperature range: -40 to +85°C

APPLICATION

OETHERNET lines.

PART NUMBER CONSTRUCTION



CHARACTERISTICS SPECIFICATION TABLE

Common mode in	npedance	DC resistance	Insulation resistance	Rated current	Rated voltage	Part No.
[at 100MHz] (Ω)min.	(Ω)typ.	[1 line] (Ω)max.	(MΩ)min.	(mA)max.	(V)max.	
65	90	0.19	10	400	50	ALC2012-900-2P-T00
270	360	0.5	10	220	50	ALC2012-361-2P-T00

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.



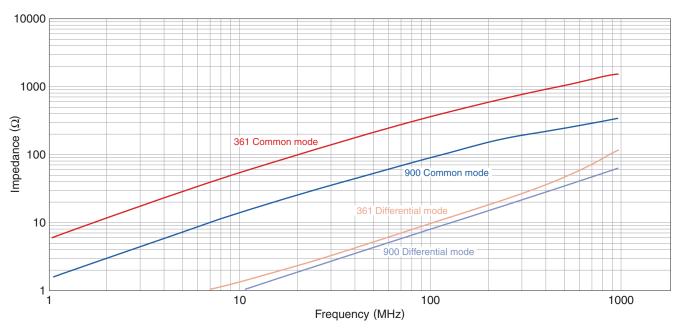


(1/4)



ALC2012 type

■IMPEDANCE VS. FREQUENCY CHARACTERISTICS



Measurement equipment

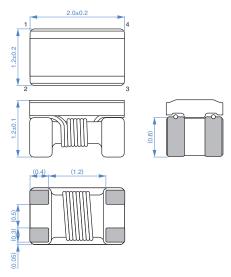
Product No. *	Manufacturer
4991A	Keysight Technologies

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ALC2012 type

SHAPE & DIMENSIONS



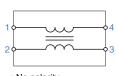
Dimensions in mm

RECOMMENDED LAND PATTERN



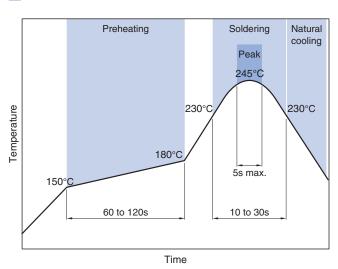
Dimensions in mm

CIRCUIT DIAGRAM



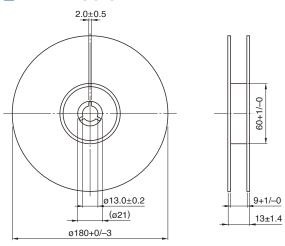
No polarity

RECOMMENDED REFLOW PROFILE



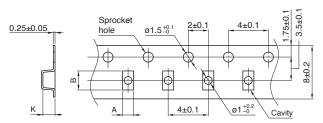
PACKAGING STYLE

REEL DIMENSIONS



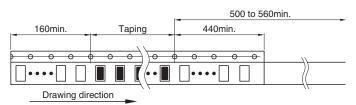
Dimensions in mm

TAPE DIMENSIONS



Dimensions in mm

Туре	Α	В	K
ALC2012	(1.4)	(2.25)	(1.4)



Dimensions in mm

PACKAGE QUANTITY

Package quantity	2000 pcs/reel

TEMPERATURE RANGE, INDIVIDUAL WEIGHT

Operating temperature range	Storage temperature range *	Individual weight
-40 to +85 °C	-40 to +85 °C	10 mg

^{*} 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 12 months. Be sure to follow the s RH or less).	
If the storage period elapses, the soldering of the terminal elec-	ctrodes may deteriorate.
ODo not use or store in locations where there are conditions suc	ch 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	· · · · · · · · · · · · · · · · · · ·
OWhen embedding a printed circuit board where a chip is moundue to the overall distortion of the printed circuit board and particles.	· · · · · · · · · · · · · · · · · · ·
Self heating (temperature increase) occurs when the power is 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 nor A malfunction may occur due to magnetic interference.	n-magnetic shield type.
Ouse a wrist band to discharge static electricity in your body the	rough 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 t	the delivery specifications.
The products listed on this catalog are intended for use in gen equipment, home appliances, amusement equipment, comput measurement equipment, industrial robots) under a normal op The products are not designed or warranted to meet the requir or quality require a more stringent level of safety or reliability, damage to society, person or property. If you intend to use the products in the applications listed belo conditions set forth in the each catalog, please contact us.	er equipment, personal equipment, office equipment, peration and use condition. ements of the applications listed below, whose performance and or whose failure, malfunction or trouble could cause serious
 (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 	 (7) Transportation control equipment (8) Public information-processing equipment (9) Military equipment (10) Electric heating apparatus, burning equipment (11) Disaster prevention/crime prevention equipment

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.

(12) Safety equipment

applications

(13) Other applications that are not considered general-purpose

(6) Seabed equipment