

Common mode filters/Chokes For power line **ACM** series









## ACM1513 type











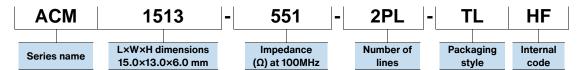
#### **FEATURES**

- Ohip common mode filter for large current applications.
- For each series, there is excellent common mode impedance and noise suppression in a compact case.
- Ocompatible with high-density portable devices, which are always being made smaller and lighter, because the height has been
- Operating temperature range: -40 to +85°C

#### **APPLICATION**

OPower line noise countermeasure for various electronic equipment.

#### PART NUMBER CONSTRUCTION



#### CHARACTERISTICS SPECIFICATION TABLE

Common mode in	npedance	DC resistance	Rated current	Insulation resistance	Rated voltage	Part No.
[100MHz]		[1 line]				
(Ω)min.	(Ω)typ.	(mΩ)max.	(A)max.	(MΩ)min.	(V)max.	
450	550	4	10	10	50	ACM1513-551-2PL-TLHF

#### Measurement equipment

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

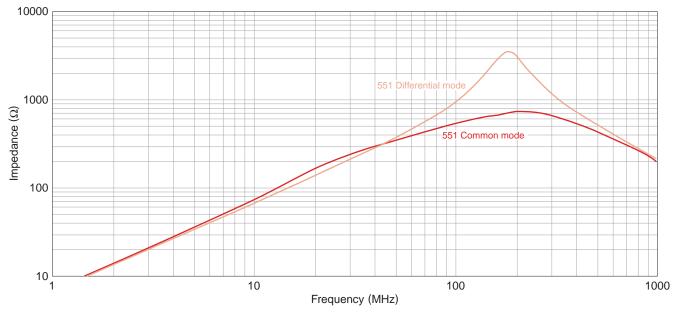
<sup>\*</sup> Equivalent measurement equipment may be used.





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#### **■IMPEDANCE VS. FREQUENCY CHARACTERISTICS**



#### Measurement equipment

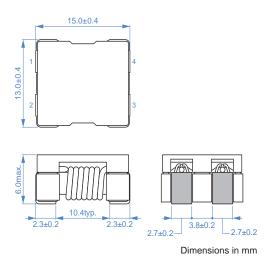
Product No.	Manufacturer
4991A	Keysight Technologies

<sup>\*</sup> Equivalent measurement equipment may be used.

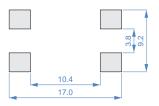


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#### SHAPE & DIMENSIONS

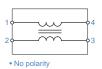


#### RECOMMENDED LAND PATTERN

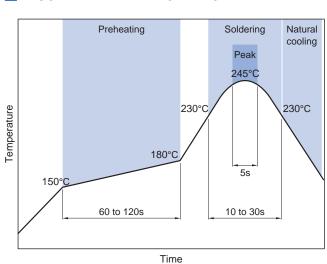


Dimensions in mm

#### **CIRCUIT DIAGRAM**

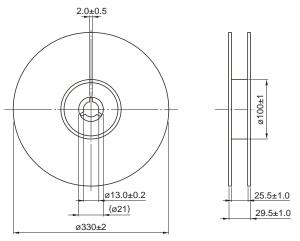


#### RECOMMENDED REFLOW PROFILE



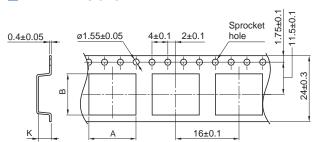
#### **PACKAGING STYLE**

#### REEL DIMENSIONS



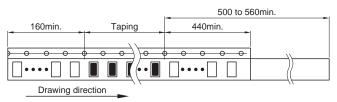
Dimensions in mm

#### **TAPE DIMENSIONS**



Dimensions in mm

Туре	Α	В	К
ACM1513	(13.4)	(15.5)	(7.3)



Dimensions in mm

#### PACKAGE QUANTITY

Package quantity	500 pcs/reel

#### **TEMPERATURE RANGE, INDIVIDUAL WEIGHT**

Operating temperature range	Storage temperature range *	Individual weight
-40 to +85 °C	-40 to +85 °C	3.14 g

<sup>\*</sup> 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 start 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	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 mound due to the overall distortion of the printed circuit board and pa	
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 non A malfunction may occur due to magnetic interference.	-magnetic shield type.
Ouse a wrist band to discharge static electricity in your body thr	ough 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 t	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 op. 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.  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, eration and use condition. ements of the applications listed below, whose performance and or whose failure, malfunction or trouble could cause serious
<ul><li>(1) Aerospace/aviation equipment</li><li>(2) Transportation equipment (cars, electric trains, ships, etc.)</li><li>(3) Medical equipment</li></ul>	<ul><li>(7) Transportation control equipment</li><li>(8) Public information-processing equipment</li><li>(9) Military equipment</li></ul>

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