

Common mode filters Automotive signal line (for infotainment) **ACM** series









ACM2012 type













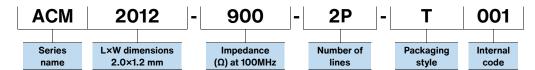
FEATURES

- OHighly reliable with a temperature range of -40 to +105°C.
- Olmpedance variation: Extensive lineup are available for compatibility with various usages
- Ocommon mode EMI measure: Possible to suppress waveform common mode EMI without straining the waveform.
- Operating temperature range: -40 to +105°C
- Compliant with AEC-Q200

APPLICATION

Radiated noise suppression for car multimedia interfaces (MOST, USB2.0, IDB-1394, etc.).

PART NUMBER CONSTRUCTION



CHARACTERISTICS SPECIFICATION TABLE

Common mode in	npedance	DC resistance	Rated current	Rated voltage	Insulation resistance	Part No.
[100MHz]*		[1 line]				
(Ω)min.	(Ω)typ.	(Ω)max.	(mA)max.	(V)max.	(MΩ)min.	
65	90	0.19	400	50	10	ACM2012-900-2P-T001
90	120	0.22	370	50	10	ACM2012-121-2P-T001
150	200	0.25	350	50	10	ACM2012-201-2P-T001
270	360	0.50	220	50	10	ACM2012-361-2P-T001
510	680	1.3	200	50	10	ACM2012-681-2P-T001
750	1000	1.5	190	50	10	ACM2012-102-2P-T001
1500	2200	2.5	150	50	10	ACM2012-222-2P-T001

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.



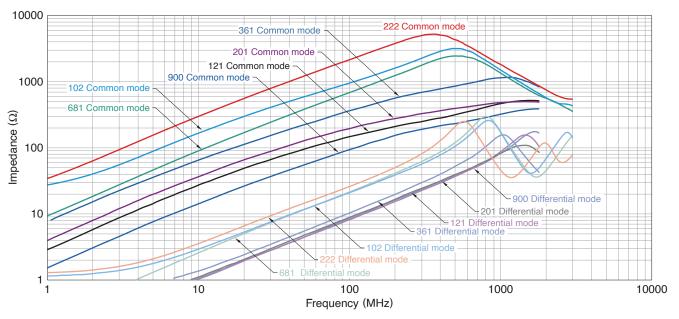


(1/4)



ACM2012 type

IMPEDANCE VS. FREQUENCY CHARACTERISTICS



Measurement equipment

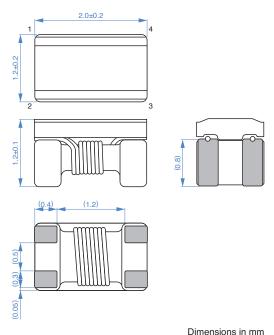
Product No. *	Manufacturer
4991A	Keysight Technologies

^{*} Equivalent measurement equipment may be used.

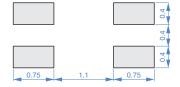


ACM2012 type

SHAPE & DIMENSIONS

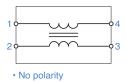


RECOMMENDED LAND PATTERN

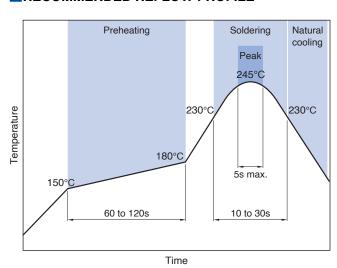


Dimensions in mm

CIRCUIT DIAGRAM

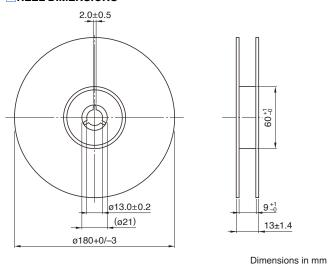


RECOMMENDED REFLOW PROFILE

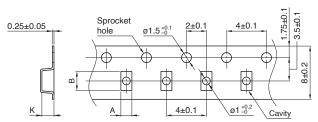


PACKAGING STYLE

REEL DIMENSIONS

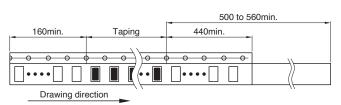


TAPE DIMENSIONS



Dimensions in mm

Туре	Α	В	K
ACM2012	(1.4)	(2.25)	(1.4)



Dimensions in mm

□PACKAGE QUANTITY

Package quantity	2,000 pcs/reel

TEMPERATURE RANGE, INDIVIDUAL WEIGHT

Operating temperature range *	Storage temperature range **	Individual weight
-40 to +105 °C	-40 to +105 °C	10 mg

- * Operating temperature range includes self-temperature rise.
- ** 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 RH or less).	e storage conditions (temperature: 5 to 40°C, humidity: 10 to 75%
If the storage period elapses, the soldering of the terminal e	lectrodes may deteriorate.
ODo not use or store in locations where there are conditions s	uch as gas corrosion (salt, acid, alkali, etc.).
Soldering corrections after mounting should be within the rall foverheated, a short circuit, performance deterioration, or	·
When embedding a printed circuit board where a chip is module to the overall distortion of the printed circuit board and	unted to a set, be sure that residual stress is not given to the chip partial distortion such as at screw tightening portions.
Self heating (temperature increase) occurs when the power thermal design.	is turned ON, so the tolerance should be sufficient for the set
Carefully lay out the coil for the circuit board design of the n A malfunction may occur due to magnetic interference.	on-magnetic shield type.
Ouse a wrist band to discharge static electricity in your body t	through 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	n the delivery specifications.
equipment, home appliances, amusement equipment, comp measurement equipment, industrial robots) under a normal of The products are not designed or warranted to meet the requ or quality require a more stringent level of safety or reliabilit damage to society, person or property.	
(1) Aerospace/aviation equipment	(7) Transportation control equipment
(2) Transportation equipment (electric trains, ships, etc.)	(8) Public information-processing equipment
(3) Medical equipment	(9) Military equipment
(4) Power-generation control equipment	(10) Electric heating apparatus, burning 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.

(11) Disaster prevention/crime prevention equipment

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

(12) Safety equipment

applications

(5) Atomic energy-related equipment

(6) Seabed equipment