E M C Components



Common mode filters

Automobile Ultra-high-speed differential signal line (for infotainment) **ACM-H series**









ACM2012H-T03 type













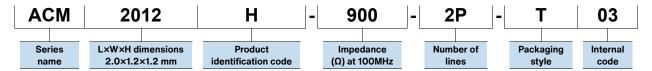
FEATURES

- OHighly reliable with a temperature range of -40 to +105°C.
- 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

- ORadiated noise suppression for car multimedia interfaces (MOST, HDMI, IDB-1394, etc.).
- OPortable PC and PC interfaces (USB, IEEE1394)
- ODVC, CD/DVD-ROM, etc.

PART NUMBER CONSTRUCTION



CHARACTERISTICS SPECIFICATION TABLE

Commor impedan		DC resistance	Rated current	Rated voltage	Insulation resistance	Cutoff frequency	Characteristic impedance	Part No.
[at 100M	Hz]	[1 line]						
(Ω)min.	(Ω)typ.	(Ω)max.	(mA)max.	(V)max.	(MΩ)min.	(GHz)typ.	(Ω)typ.	
65	90	0.30	300	50	10	5	100	ACM2012H-900-2P-T03

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.

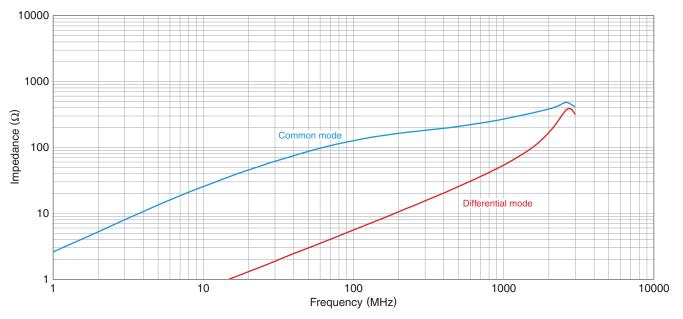






ACM2012H-T03 type

IMPEDANCE VS. FREQUENCY CHARACTERISTICS



Measurement equipment

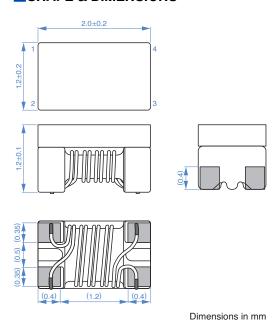
Product No.	Manufacturer
4991A	Keysight Technologies

^{*} Equivalent measurement equipment may be used.

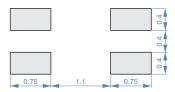


ACM2012H-T03 type

SHAPE & DIMENSIONS

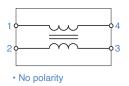


RECOMMENDED LAND PATTERN

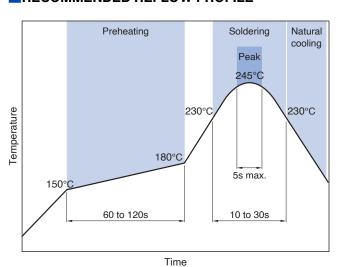


Dimensions in mm

CIRCUIT DIAGRAM

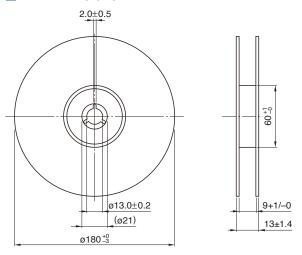


■ RECOMMENDED REFLOW PROFILE



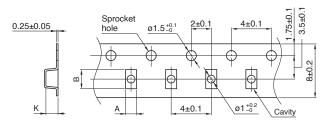
PACKAGING STYLE

REEL DIMENSIONS



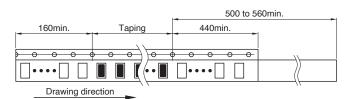
Dimensions in mm

TAPE DIMENSIONS



Dimensions in mm

Туре	Α	В	K
ACM2012H-T03	(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	electrodes may deteriorate.
ODo not use or store in locations where there are conditions s	such as gas corrosion (salt, acid, alkali, etc.).
Soldering corrections after mounting should be within the rall overheated, 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.	non-magnetic shield type.
Ouse 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 i	n the delivery specifications.
equipment, home appliances, amusement equipment, comp measurement equipment, industrial robots) under a normal	
	ty, or whose failure, malfunction or trouble could cause serious
If you intend to use the products in the applications listed be conditions set forth in the each catalog, please contact us.	elow or if you have special requirements exceeding the range or
(1) Aerospace/aviation equipment	(7) Transportation control equipment
(2) Transportation equipment (electric trains, ships, etc.)	(8) Public information-processing equipment

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