EMC Components

⊗TDK

Common mode filters

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



AEC-Q200

ACM2012H-T03 type



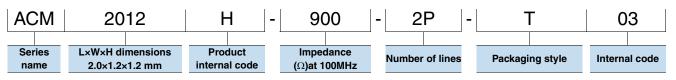
FEATURES

- \bigcirc Highly reliable with a temperature range of -40 to +105°C.
- O Common 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

- O Radiated noise suppression for car multimedia interfaces (MOST, HDMI, IDB-1394, etc.).
- Portable PC and PC interfaces (USB, IEEE1394)
- ODVC, CD/DVD-ROM, etc.
- O Application guides: Car Infotainment

PART NUMBER CONSTRUCTION



CHARACTERISTICS SPECIFICATION TABLE

Common mode impedance		DC resistance	Rated current	Rated voltage	Insulation resistance	Cutoff frequency	Characteristic impedance	Part No.
[at 100MH	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	6	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

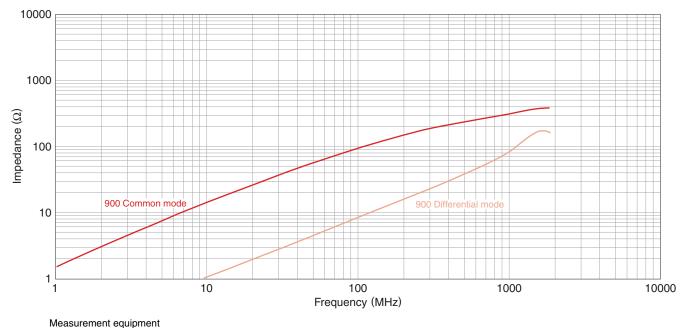
* Equivalent measurement equipment may be used.



cmf_automotive_signal_acm2012h-t03_en

ACM2012H-T03 type

■ IMPEDANCE VS. FREQUENCY CHARACTERISTICS



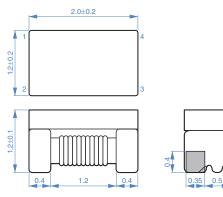
Product No.	Manufacturer
4991A	Keysight Technologies

* Equivalent measurement equipment may be used.

Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use.
(2/4)
Please note that the contents may change without any prior notice due to reasons such as upgrading.
20181015

ACM2012H-T03 type

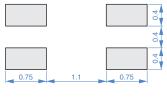
SHAPE & DIMENSIONS



Dimensions in mm

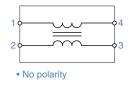
0.35

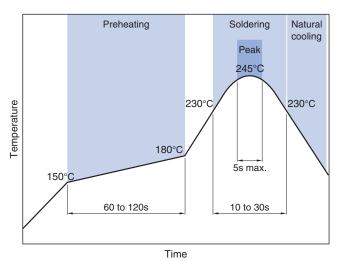
RECOMMENDED LAND PATTERN



Dimensions in mm

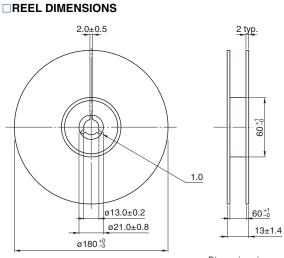
CIRCUIT DIAGRAM





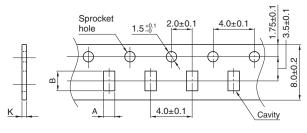
RECOMMENDED REFLOW PROFILE

PACKAGING STYLE

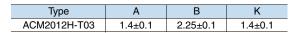


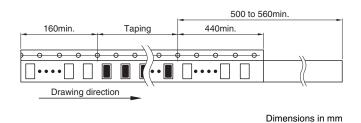
Dimensions in mm

TAPE DIMENSIONS



Dimensions in mm





PACKAGE QUANTITY

Package quantity	2,000 pcs/reel

TEMPERATURE RANGE, INDIVIDUAL WEIGHT

emperature range*	weight
–40 to +105 °C	10 mg
	-40 to +105 °C

The storage temperature range is for after the assembly.

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. (3/4)

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 less than 6 months. Be sure to follow the storage conditions (temperature: 5 to 40°C, humidity: 10 to 75% RH or less). If the storage period elapses, the soldering of the terminal electrodes may deteriorate. O Do 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. O 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. O 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. O Do not expose the products to magnets or magnetic fields. O Do not use for a purpose outside of the contents regulated in the delivery specifications. O 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 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 set forth in the each catalog, please contact us. (8) Public information-processing equipment (1) Aerospace/aviation equipment (2) Transportation equipment (cars, electric trains, ships, etc.) (9) Military equipment (3) Medical equipment (10) Electric heating apparatus, burning equipment (4) Power-generation control equipment (11) Disaster prevention/crime prevention equipment (12) Safety equipment (5) Atomic energy-related equipment (6) Seabed equipment (13) Other applications that are not considered general-purpose (7) Transportation control equipment 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.

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. (4/4) Please note that the contents may change without any prior notice due to reasons such as upgrading.

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 UALSC1520JH000
 UALSU10VR15019
 UALSU10VR20010
 UALSU16VD30030
 UALSU16VD40010

 UALSU9H0305000
 UALSU9HF030600
 UALSU9HF060300
 UALSU9HR050340
 UALSU9VD070100
 UALSU9VR070170
 5701610000

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 UALSU9VD070400
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 UALSU9H0701000
 UALSU9H0208000
 UALSU9H0110000
 UALSC0305GS000

 UALSC0120G0000
 UAL24VK06450CH
 UAL11VL1105000
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 RN114-1.2-02-10M
 RN122-0.6-02-47M
 RN122-3-02-4M5

 RN142-1-02-33M
 RN214-2.5-02-3M3
 RN112-2-02-1M0
 RN143-6-02-1M8
 RN214-0.8-02-27M
 RN242-1.4-02-27M
 EXC-X4CH120X

 DLW5BTM102TQ2L
 CMF16-153131
 CMF23H-273141
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