

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









ACM2012 type













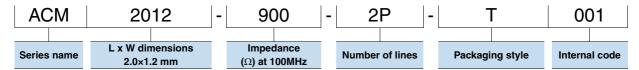
FEATURES

- \bigcirc Highly reliable with a temperature range of -40 to +105°C.
- O Impedance 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
- Ocompliant with AEC-Q200

APPLICATION

- Radiated noise suppression for car multimedia interfaces (MOST, USB2.0, IDB-1394, etc.).
- O Application guides: Car Infotainment

PART NUMBER CONSTRUCTION



■ CHARACTERISTICS SPECIFICATION TABLE

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

[·] Operating temperature range: -40 to +105°C

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.

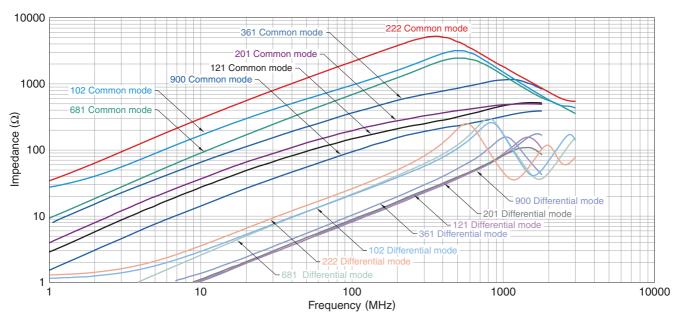






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IMPEDANCE VS. FREQUENCY CHARACTERISTICS



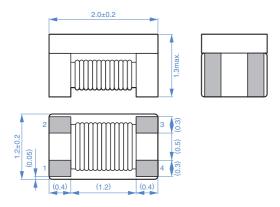
Measurement equipment

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4991A	Keysight Technologies

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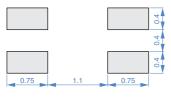
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SHAPE & DIMENSIONS



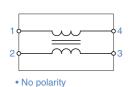
Dimensions in mm

■ RECOMMENDED LAND PATTERN

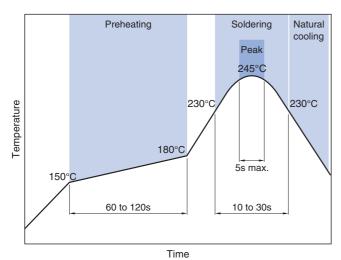


Dimensions in mm

CIRCUIT DIAGRAM

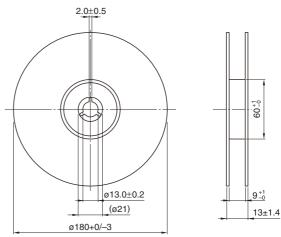


■ RECOMMENDED REFLOW PROFILE



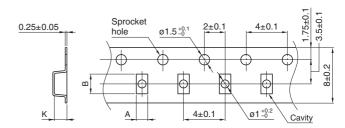
■PACKAGING STYLE

REEL DIMENSIONS



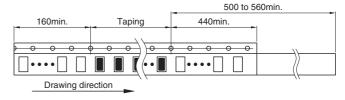
Dimensions in mm

TAPE DIMENSIONS



Dimensions in mm

Type	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

^{*} The storage temperature range is for after the assembly.