EN: This Datasheet/Document is presented by the manufacturer.

Please visit our website for pricing and availability at www.hestore.hu.

Common Mode Filters

For high-speed differential signal line/general signal line

ACM series

Type:	**ACM2012**	**[0805 inch]***
	ACM2520	**[1008 inch]**

*** Dimensions Code [EIA]**

Issue date: June 2012

- All specifications are subject to change without notice.
- Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

Common Mode Filters
For High-speed Differential Signal Line / General Signal Line

Conformity to RoHS Directive

ACM Series ACM2012, 2520

FEATURES

- Although greatly miniaturized, this wire-wound chip-type filter maintains the characteristics needed for a common mode filter. Common mode impedance is 1000Ω [at 100MHz], so this filter is greatly effective in supporting noise.
- Almost no affect upon even high speed signals since differential mode impedance is kept low.
- This series includes both 2-line and 3-line types. They are used for various types of circuits and noise.

APPLICATIONS

- Used for radiation noise suppression for any electronic devices.
- Used to counter common mode noise affecting signals within high-speed lines.
- USB line for personal computers and peripheral equipment.
- IEEE1394 line for personal computers, DVC, STB, etc.
- LVDS, panel link line for liquid crystal display panels.

TEMPERATURE RANGES

Operating	–40 to +85°C
Storage(After mount)	–40 to +85°C

PACKAGING STYLE AND QUANTITIES

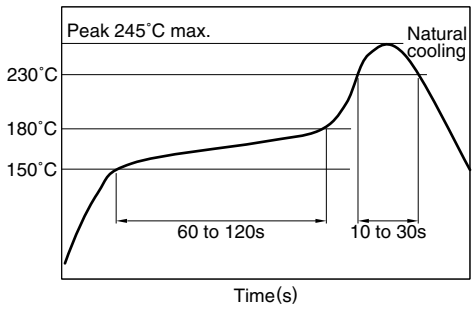
Packaging style	Type	Reel	Quantity
Taping	ACM2012	ø180mm	2000 pieces/reel
		ø330mm	10000 pieces/reel
	ACM2520	ø180mm	2000 pieces/reel
		ø330mm	10000 pieces/reel

PRODUCT IDENTIFICATION

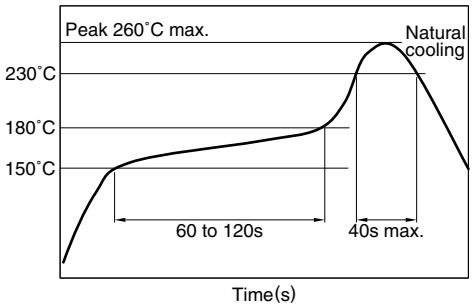
ACM	2012	-	900	-	2P	-	T		□□□
(1)	(2)		(3)		(4)		(5)		(6)

(1) Series name
(2) Dimensions L×W
2012: 2.0×1.2mm
(3) Impedance[at 100MHz]
900: 90Ω
(4) Number of line
2P: 2-line
3P: 3-line
(5) Packaging style
T: ø180mm reel taping
TL: ø330mm reel taping
(6) TDK internal code

RECOMMENDED SOLDERING CONDITIONS
RECOMMENDED TEMPERATURE PROFILE FOR LEAD-FREE SOLDER



REFLOW PROFILE FOR SOLDER HEAT RESISTANCE



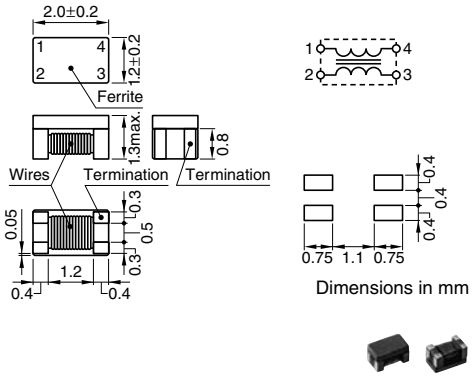
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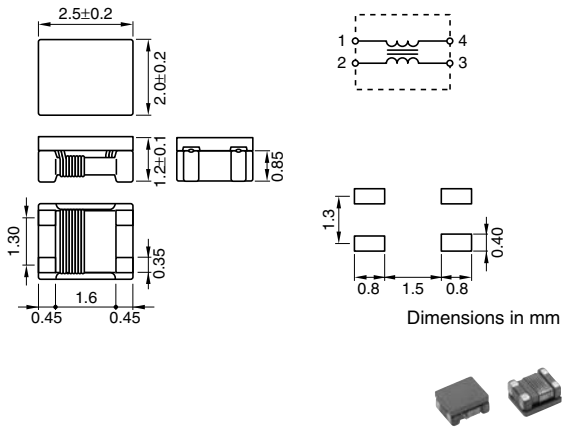
SHAPES AND DIMENSIONS/CIRCUIT DIAGRAMS/RECOMMENDED PC BOARD PATTERNS

2-LINE TYPE

ACM2012-2P

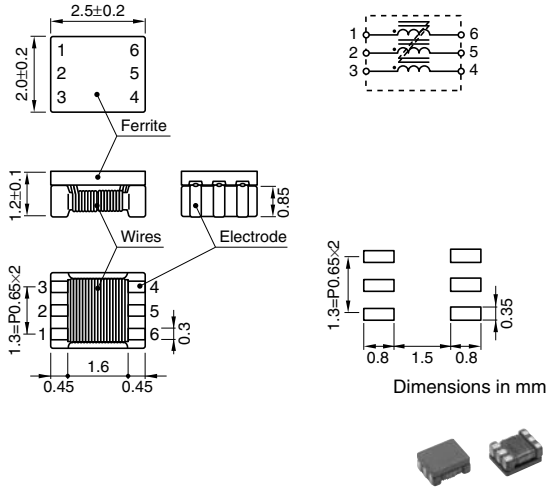


ACM2520-2P



3-LINE TYPE

ACM2520-3P



ELECTRICAL CHARACTERISTICS

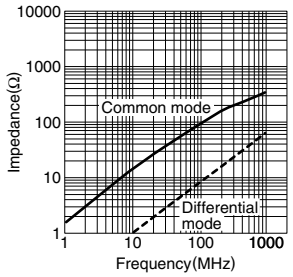
Part No.	Impedance (Ω)typ.[100MHz]	DC resistance (Ω)max.[per 1 line]	Rated voltage Edc(V)max.	Rated current Idc(A)max.
2-LINE				
ACM2012-900-2P	90	0.19	50	0.4
ACM2012-121-2P	120	0.22	50	0.37
ACM2012-201-2P	200	0.25	50	0.35
ACM2012-361-2P	360	0.5	50	0.22
ACM2520-301-2P	300	0.35	20	0.4
ACM2520-451-2P	450	0.4	20	0.35
ACM2520-601-2P	600	0.45	20	0.3
ACM2520-102-2P	1000	0.9	20	0.2
3-LINE				
ACM2520-801-3P	800	1.6	20	0.15

TYPICAL ELECTRICAL CHARACTERISTICS

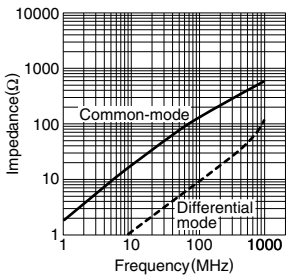
IMPEDANCE vs. FREQUENCY CHARACTERISTICS

2-LINE

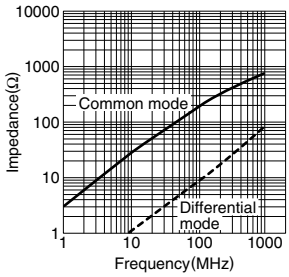
ACM2012-900-2P



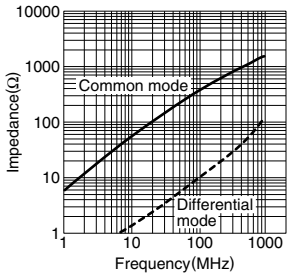
ACM2012-121-2P



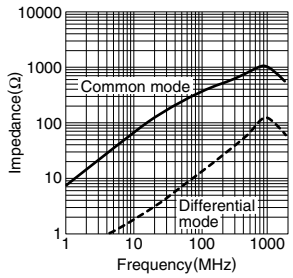
ACM2012-201-2P



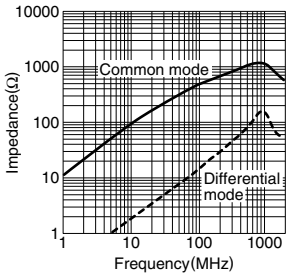
ACM2012-361-2P



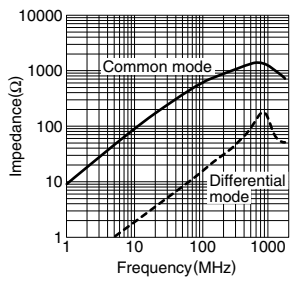
ACM2520-301-2P



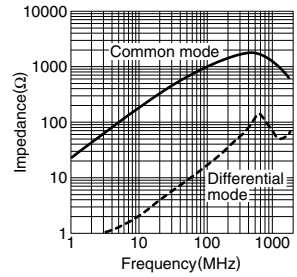
ACM2520-451-2P



ACM2520-601-2P

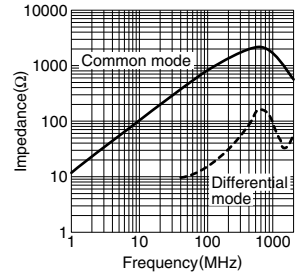


ACM2520-102-2P



3-LINE

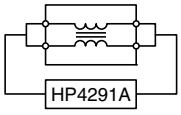
ACM2520-801-3P



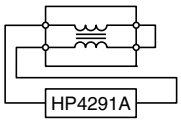
MEASURING CIRCUITS

2-LINE

Common mode

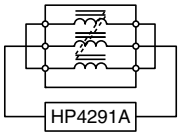


Differential mode



3-LINE

Common mode



Differential mode

