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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



Common Mode Filters

For high-speed differential signal line/general signal line

ACM series

Type:	ACM2012	[0805 inch]*
	ACM2520	[1008 inch]
	ACM3225	[1210 inch]
	ACM4532	[1812 inch]

* Dimensions Code [EIA]

Issue date: September 2011

- 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.
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Common Mode Filters

For High-speed Differential Signal Line / General Signal Line

Conformity to RoHS Directive

ACM Series ACM2012, 2520, 3225, 4532

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	-25 to +85°C
Storage(After mount)	-25 to +85°C

PACKAGING STYLE AND QUANTITIES

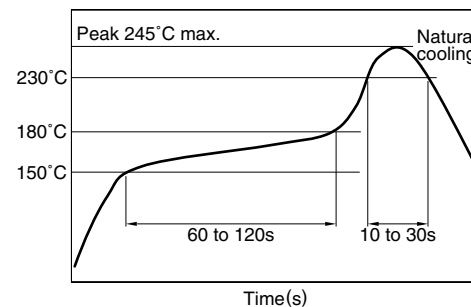
Packaging style	Type	Reel	Quantity
Taping	ACM2012	ø180mm	2000 pieces/reel
		ø330mm	10000 pieces/reel
	ACM2520	ø180mm	2000 pieces/reel
		ø330mm	10000 pieces/reel
	ACM3225	ø180mm	1000 pieces/reel
		ø330mm	5000 pieces/reel
ACM4532	ø180mm	500 pieces/reel	
	ø330mm	2000 pieces/reel	

PRODUCT IDENTIFICATION

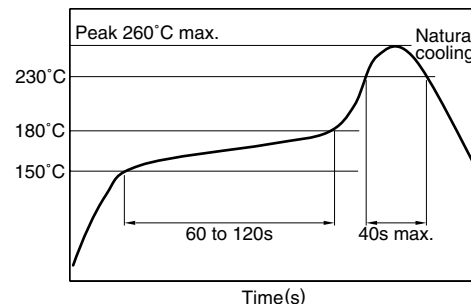
ACM	2012	-	900	-	2P	-	T	□□□
(1)	(2)	(3)	(4)	(5)	(6)			

- (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



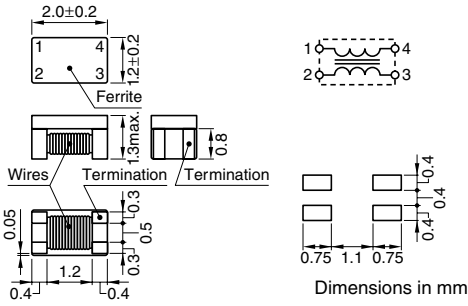
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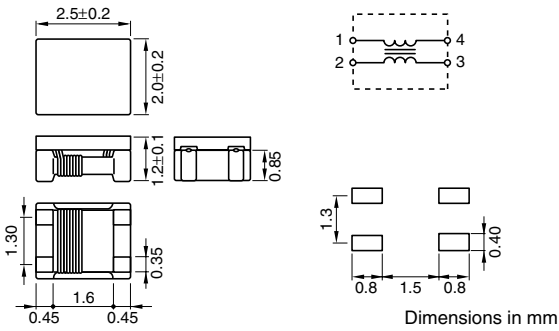
SHAPES AND DIMENSIONS/CIRCUIT DIAGRAMS/RECOMMENDED PC BOARD PATTERNS

2-LINE TYPE

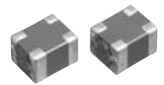
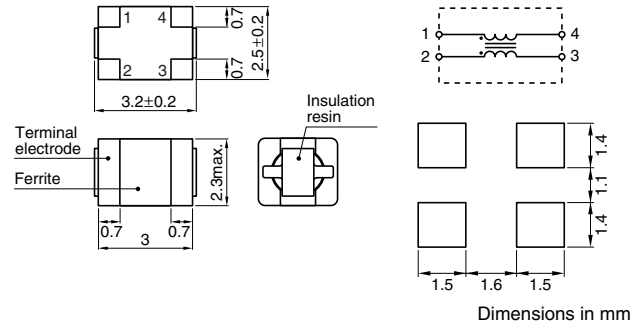
ACM2012-2P



ACM2520-2P

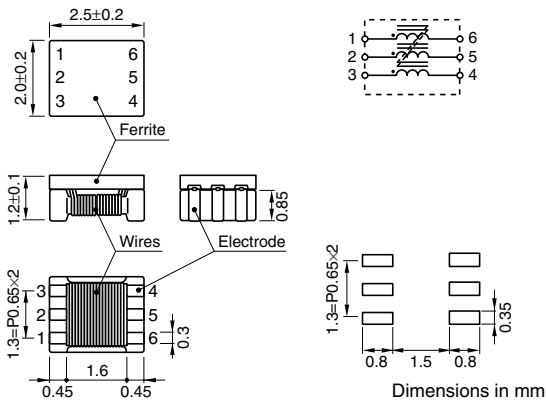


ACM3225-2P

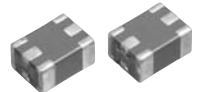
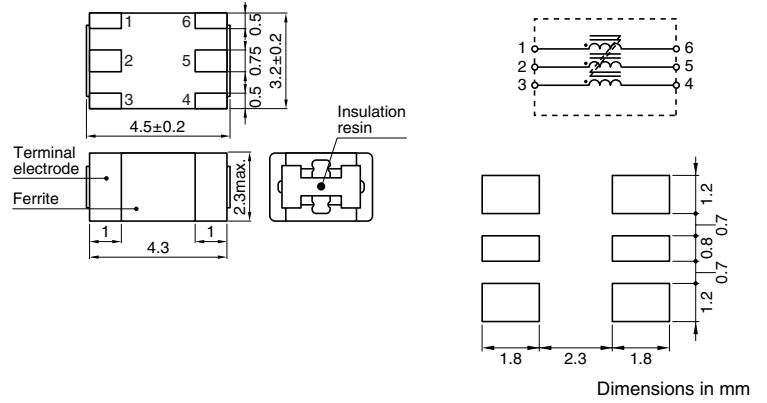


3-LINE TYPE

ACM2520-3P



ACM4532-102-3P

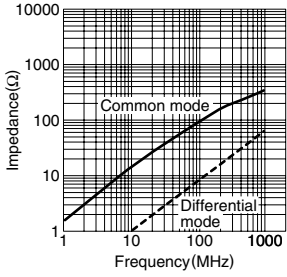


ELECTRICAL CHARACTERISTICS

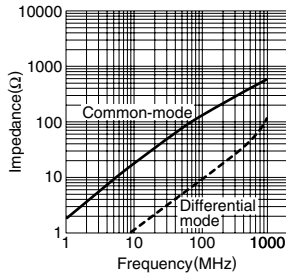
Part No.	Impedance (Ω)typ.[100MHz]	DC resistance (Ω)max.[per 1 line]	Rated voltage E _{dc} (V)max.	Rated current I _{dc} (A)max.
2-LINE				
ACM2012-900-2P	90	0.19	50	0.4
ACM2012-121-2P	120	0.22	50	0.37
ACM2012-201-2P	200	0.25	50	0.35
ACM2012-361-2P	360	0.5	50	0.22
ACM2520-301-2P	300	0.35	20	0.4
ACM2520-451-2P	450	0.4	20	0.35
ACM2520-601-2P	600	0.45	20	0.3
ACM2520-102-2P	1000	0.9	20	0.2
ACM3225-800-2P	80	0.15	20	0.4
ACM3225-161-2P	160	0.2	20	0.35
ACM3225-271-2P	270	0.3	20	0.3
ACM3225-102-2P	1000	0.5	20	0.2
3-LINE				
ACM2520-801-3P	800	1.6	20	0.15
ACM4532-102-3P	1000	0.6	20	0.2

TYPICAL ELECTRICAL CHARACTERISTICS
IMPEDANCE vs. FREQUENCY CHARACTERISTICS
2-LINE

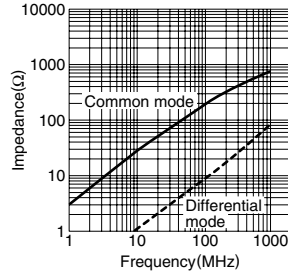
ACM2012-900-2P



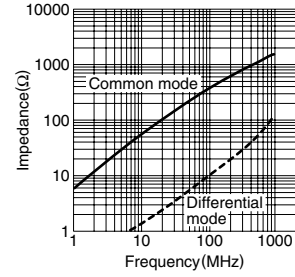
ACM2012-121-2P



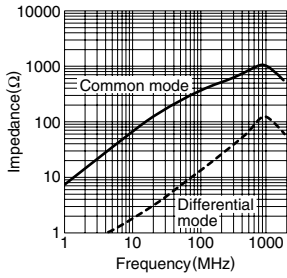
ACM2012-201-2P



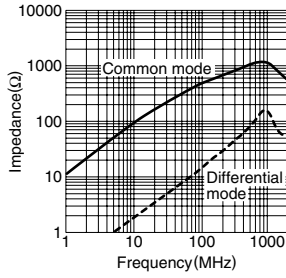
ACM2012-361-2P



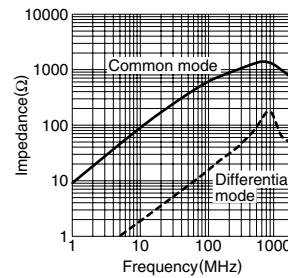
ACM2520-301-2P



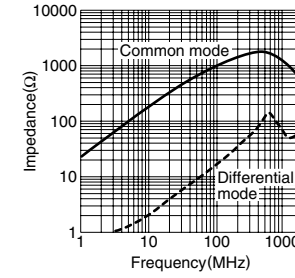
ACM2520-451-2P



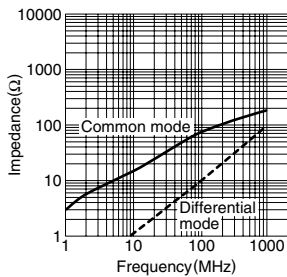
ACM2520-601-2P



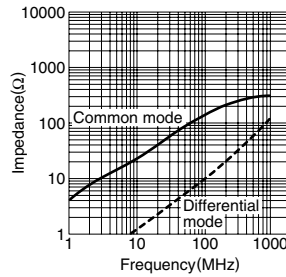
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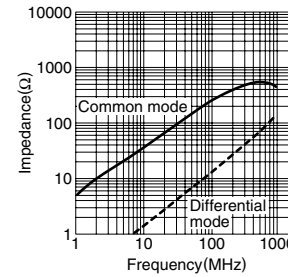
ACM3225-800-2P



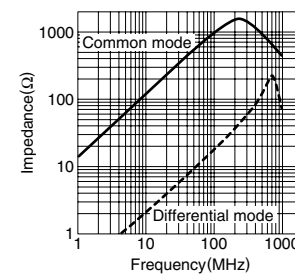
ACM3225-161-2P



ACM3225-271-2P

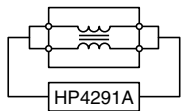


ACM3225-102-2P

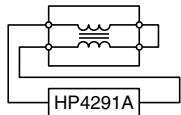


MEASURING CIRCUITS
2-LINE

Common mode



Differential mode



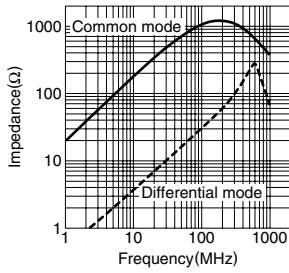
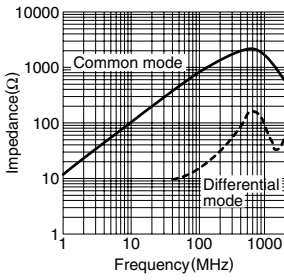
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TYPICAL ELECTRICAL CHARACTERISTICS IMPEDANCE vs. FREQUENCY CHARACTERISTICS

3-LINE

ACM2520-801-3P

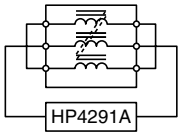
ACM4532-102-3P



MEASURING CIRCUITS

3-LINE

Common mode



Differential mode

