

EMC Components

ACM Series

Common Mode Choke Coils for Signal Line SMD

FEATURES

- Although greatly miniaturized, this wire-wound chip-type filter maintains the characteristics needed for a common-mode filter. Greatly effective in suppressing noise. Common-mode inductance $>1000\Omega$ at 100MHz.
- Almost no affect upon even high speed signals since differential mode impedance is kept low.
- This series includes both 2-line type and 3-line types. Used for various types of circuits and noise. TDK has developed in the world's smallest size of 2012 type (L2.0xW1.2mm).

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.

PRODUCT IDENTIFICATION

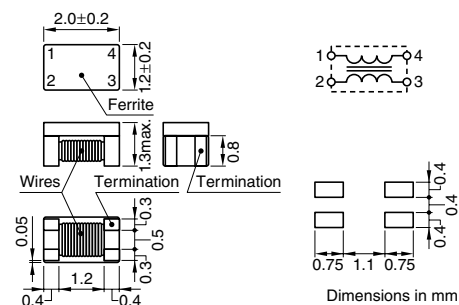
ACM	2012	-	900	-	2P	-	T
(1)	(2)		(3)		(4)		(5)

- (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: ϕ 180mm reel taping
TL: ϕ 330mm reel taping

SHAPES AND DIMENSIONS/CIRCUIT DIAGRAMS/RECOMMENDED PC BOARD PATTERNS

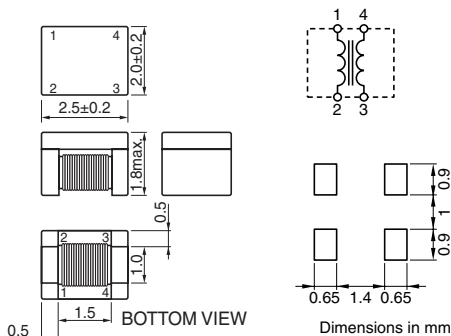
2-LINE

ACM2012-2P



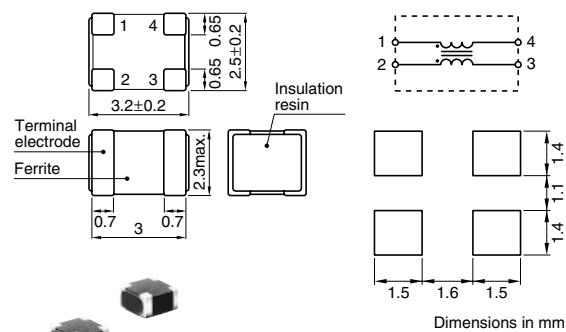
2-LINE

ACM2520U-2P



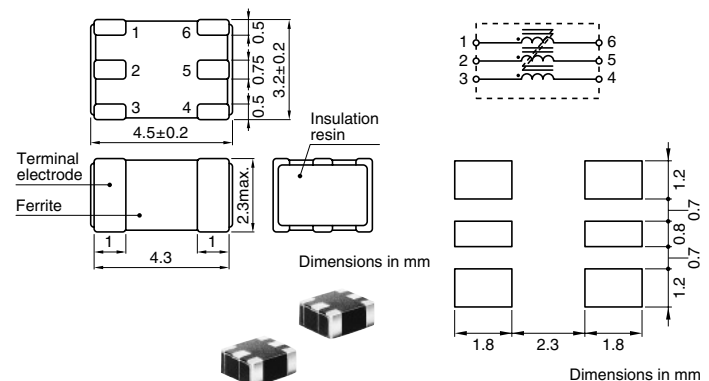
2-LINE

ACM3225-2P



3-LINE

ACM4532-102-3P



EMC Components

ACM Series

Common Mode Choke Coils for Signal Line SMD

ELECTRICAL CHARACTERISTICS

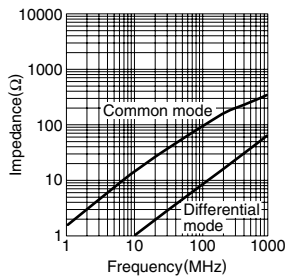
Part No.	Impedance (Ω)typ.[100MHz]	DC resistance (Ω)max.[Per 1line]	Rated voltage E _{dc} (V)max.	Rated current I _{dc} (A)max.
ACM2012-900-2P-□*	90	0.19	20	0.2
ACM2012-121-2P-□	120	0.22	20	0.2
ACM2012-201-2P-□	200	0.25	20	0.15
ACM2012-361-2P-□	360	0.5	20	0.1
ACM2520U-201-2P-□	200	0.25	20	0.3
ACM2520U-301-2P-□	300	0.3	20	0.3
ACM2520U-451-2P-□	450	0.35	20	0.25
ACM2520U-601-2P-□	600	0.4	20	0.25
ACM2520U-102-2P-□	1000	0.55	20	0.1
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
ACM4532-102-3P-□	1000	0.6	20	0.2

* □ : Packaging style (T: Taping [ø180mm reel], TL: Taping [ø330mm reel])

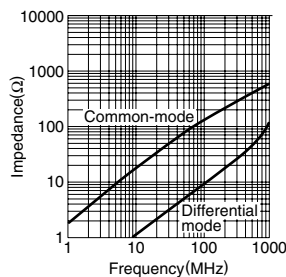
TYPICAL ELECTRICAL CHARACTERISTICS

IMPEDANCE vs. FREQUENCY CHARACTERISTICS

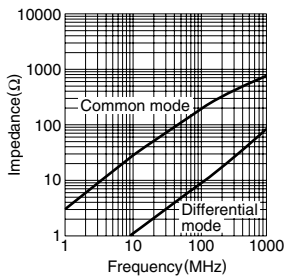
ACM2012-900-2P



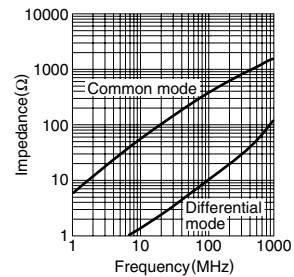
ACM2012-121-2P



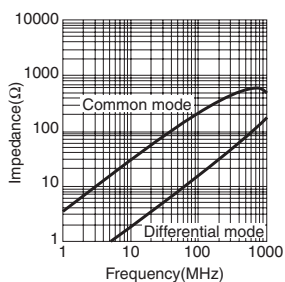
ACM2012-201-2P



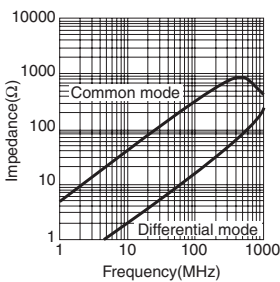
ACM2012-361-2P



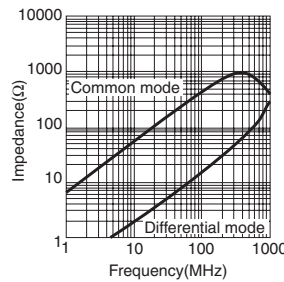
ACM2520U-201-2P



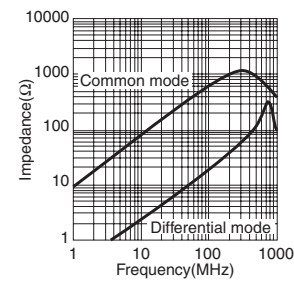
ACM2520U-301-2P



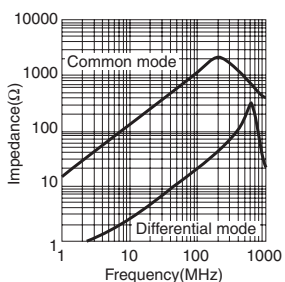
ACM2520U-451-2P



ACM2520U-601-2P

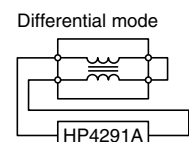
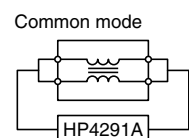


ACM2520U-102-2P



MEASURING CIRCUITS

2-LINE



EMC Components

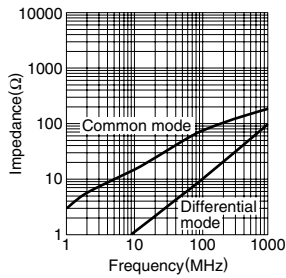
ACM Series

Common Mode Choke Coils for Signal Line SMD

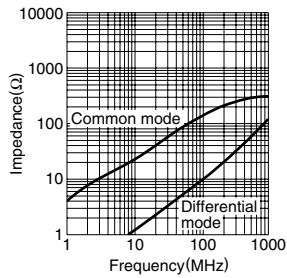
TYPICAL ELECTRICAL CHARACTERISTICS

IMPEDANCE vs. FREQUENCY CHARACTERISTICS

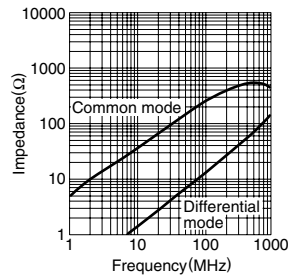
ACM3225-800-2P



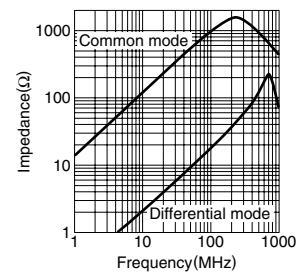
ACM3225-161-2P



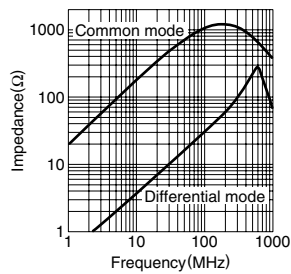
ACM3225-271-2P



ACM3225-102-2P



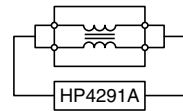
ACM4532-102-3P



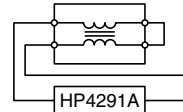
MEASURING CIRCUITS

2-LINE

Common mode

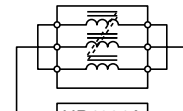


Differential mode



3-LINE

Common mode



Differential mode

