

EMC Components

ACM Series

Common-Mode Choke Coils for DC Power Line SMD

FEATURES

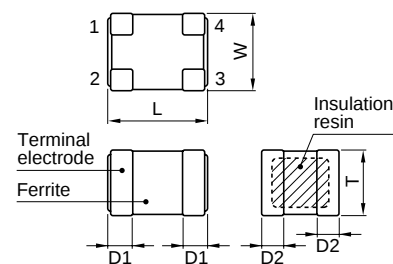
- A chip-type common-mode filter for high current applications. Common-mode impedance surpasses 600 to 1000Ω at 100MHz. Noise is greatly suppressed.
- Capable of handling the highest current (up to 6A) of any chip-type common-mode filter in the world.
- This series of choke coils handles a range of current settings from 1 to 6A.
- Height and size have been considered, resulting in a compact and light-weight choke coil. Applicable for the miniaturization required to reduce the size and weight of portable equipment.

APPLICATIONS

Used for power line noise suppression for any electronic device.
Used to counter adapter/battery line noise for relatively large electronic devices such as notebook PCs, stand-alone word processors, etc.

SHAPES AND DIMENSIONS

ACM3225, 4532 TYPES



Dimensions in mm					
Type	L	W	T	D1	D2
ACM3225	3.2±0.2	2.5±0.2	2.3 max.	0.7	0.65
ACM4532	4.5±0.2	3.2±0.2	3.0 max.	1	1

PRODUCT IDENTIFICATION

ACM	0706	-102	-2PT	-T
(1)	(2)	(3)	(4)	(5)

(1) Series

(2) Dimensions L×W

0706: 7.0×6.0mm

(3) Impedance[at 100MHz]

801: 800Ω

102: 1000Ω

(4) Number of lines

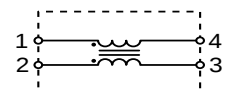
2P:2-line

(5)Packaging style

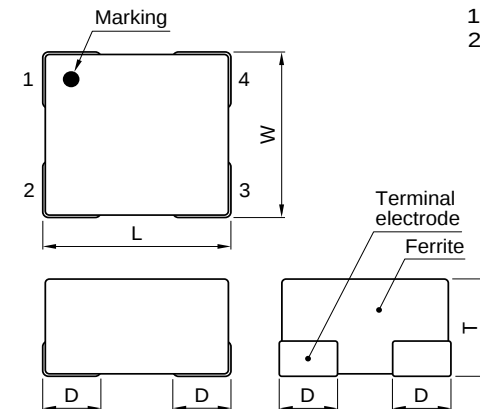
T: ø180mm reel taping

TL: ø330mm reel taping

CIRCUIT DIAGRAM



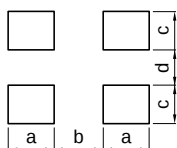
ACM0706, 0908, 1110 TYPES



Dimensions in mm				
Type	L	W	T	D
ACM0706	7±0.2	6±0.2	4.5 max.	2
ACM0908	9±0.2	8±0.2	4.5 max.	3
ACM1110	11±0.2	10±0.2	5.9 max.	3.5

RECOMMENDED PC BOARD PATTERN

REFLOW SOLDERING



Dimensions in mm				
Type	a	b	c	d
ACM3225	1.5	1.6	1.4	1.1
ACM4532	1.8	2.3	1.75	1.1
ACM0706	3.5	2	2.5	2
ACM0908	4.5	2	3.5	2
ACM1110	5	3	5	3



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SMD

ELECTRICAL CHARACTERISTICS

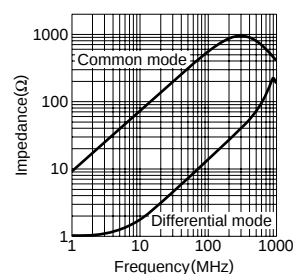
Part No.	Impedance (Ω)typ.[100MHz]	DC resistance (m Ω)max. (1 line)	Rated voltage Edc(V)max.	Rated current Idc(A)max.
ACM3225-601-2P-X*	600	200	50	1.0
ACM4532-601-2P-X	600	100	50	1.5
ACM4532-801-2P-X	800	100	50	1.0
ACM0706-102-2P-X	1000	12	50	4.0
ACM0908-801-2P-X	800	6	50	5.0
ACM1110-102-2P-X	1000	4.5	50	6.0

* X:Packaging style(T:Taping[ϕ 180mm reel], TL:Taping[ϕ 330mm reel], only TL is available for ACM1110-102-2P)

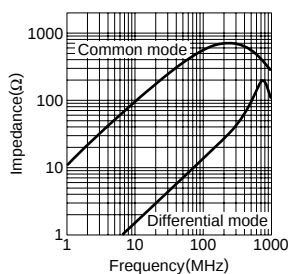
TYPICAL ELECTRICAL CHARACTERISTICS

IMPEDANCE vs.FREQUENCY CHARACTERISTICS

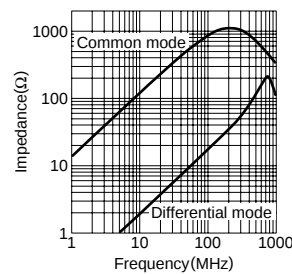
ACM3225-601-2P



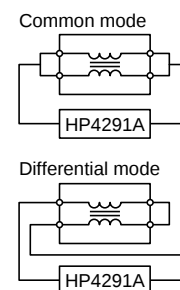
ACM4532-601-2P



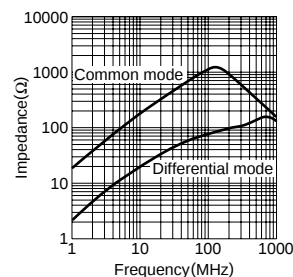
ACM4532-801-2P



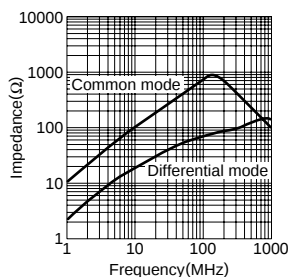
MEASURING CIRCUITS



ACM0706-102-2P



ACM0908-801-2P



ACM1110-102-2P

