

# EMC Components

## ACM Series

### Common Mode Choke Coils for DC Power Line SMD

#### FEATURES

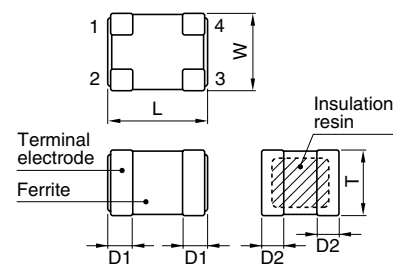
- A chip-type common mode filter for high current applications. Common mode impedance surpasses 600 to 1000Ω at 100MHz. Noise is greatly suppressed.
- Capable of handling the highest current (up to 6A) of any chip-type common mode filter.
- This series of choke coils handles a range of current settings 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 devices. 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

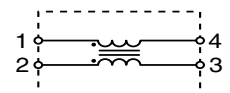
2P:2-line

(5) Packaging style

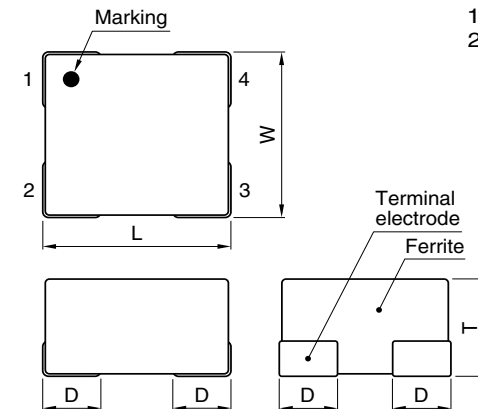
T: ø180mm reel taping

TL: ø330mm reel taping

#### CIRCUIT DIAGRAM



##### ACM0706, 0908, 1110 TYPES

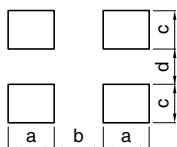


Dimensions in mm

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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#### ELECTRICAL CHARACTERISTICS

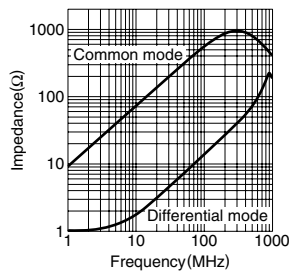
Part No.	Impedance ( $\Omega$ )typ.[100MHz]	DC resistance (m $\Omega$ )max. (1 line)	Rated voltage Edc(V)max.	Rated current Idc(A)max.
ACM3225-601-2P-X*	600	200	50	1.0
ACM4532-601-2P-X	600	100	50	1.5
ACM4532-801-2P-X	800	100	50	1.0
ACM0706-102-2P-X	1000	12	50	4.0
ACM0908-801-2P-X	800	6	50	5.0
ACM1110-102-2P-X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

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

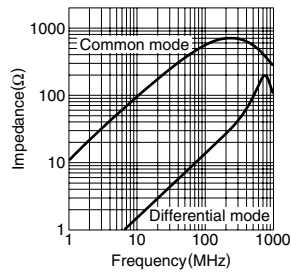
#### TYPICAL ELECTRICAL CHARACTERISTICS

##### IMPEDANCE vs. FREQUENCY CHARACTERISTICS

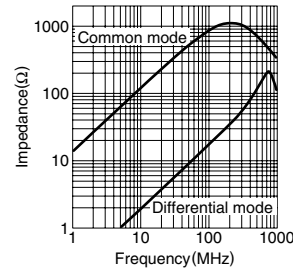
###### ACM3225-601-2P



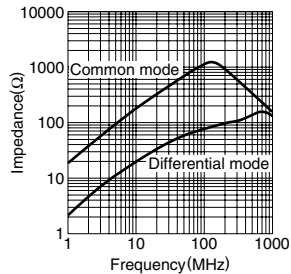
###### ACM4532-601-2P



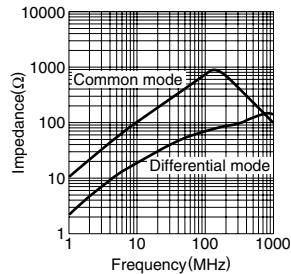
###### ACM4532-801-2P



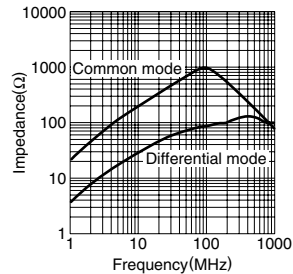
###### ACM0706-102-2P



###### ACM0908-801-2P



###### ACM1110-102-2P



#### MEASURING CIRCUITS

