Common mode Filters for CAN(Controller Area Network)

FEATURES

Operating temperature range from -40℃ to +125℃.

Non-soldered internal construction provides excellent heat resistance – to ensure effective circuit board mounting.

Robust lead frame termination – provides sound and flexible mechanical construction.

Lead free soldering applicable

AEC-Q200 compliant

APPLICATION

This SMD type product is effective in reducing noise associated with the internal communication networks used within automotive vehicles. (CAN-bus system)

PRODUCT IDENTIFICATION

ACT45C - 510 - 2P - TL - 000
 (1)   (2)   (3)   (4)   (5)

(1) Series name
(2) Inductance typ. Value
(3) Numbers of lines
  2P : 2 lines
(4)Packing style
 TL : Taping ⌀ 330mm reel 2,500pcs.
(5)Control mark

SHAPES AND DIMENSIONS

3.2 ± 0.2
① ④
② ③
4.5 ± 0.2

2.8 ± 0.2
0.7 ± 0.1
0.65 ± 0.1
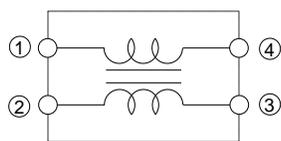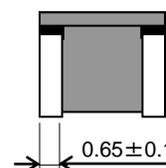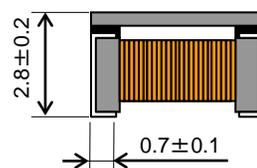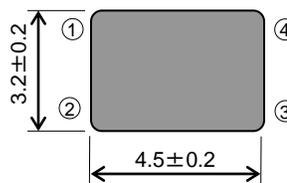
Unit : mm

RECOMMENDED PATTERN

3.4
3.2
1.6
5.9

Unit : mm

EQUIVALENT CIRCUIT

① ④
② ③

No directionality
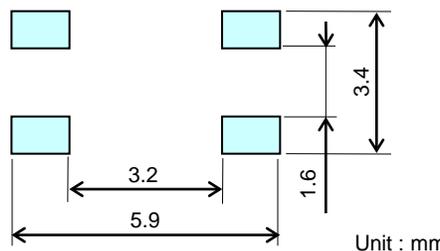
ELECTRICAL CHARACTERISTICS

Part No.	Common-mode/Ż/ (∧) at10MHz	Common-mode L (μH) typ. at100kHz	Stray L (μH) typ. at100kHz	DC resistance (∧)max.	Rated current DC(A)max.	Rated voltage DC(V)max.	Insulation Resistance (M∧)min.
ACT45C-110-2P	300min.(600typ.)	11+50/-30%	0.05	0.6	0.25	50	10
ACT45C-220-2P	500min. (1200typ.)	22+50/-30%	0.08	1.0	0.2	50	10
ACT45C-510-2P	1000min. (2800typ.)	51+50/-30%	0.15	1.0	0.2	50	10
ACT45C-101-2P	2000min.(5800typ.)	100+50/-30%	0.20	2.0	0.15	50	10

/Ż/ vs. FREQUENCY CHARACTERISTICS

ACT45C-110-2P

ACT45C-220-2P

ACT45C-510-2P

ACT45C-101-2P
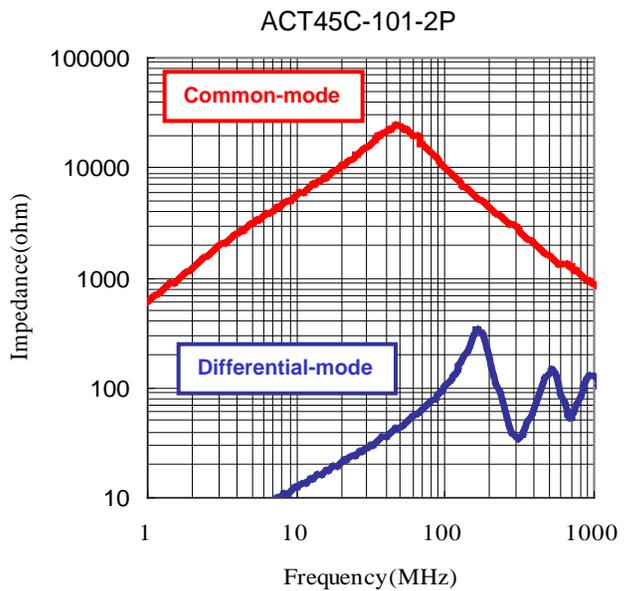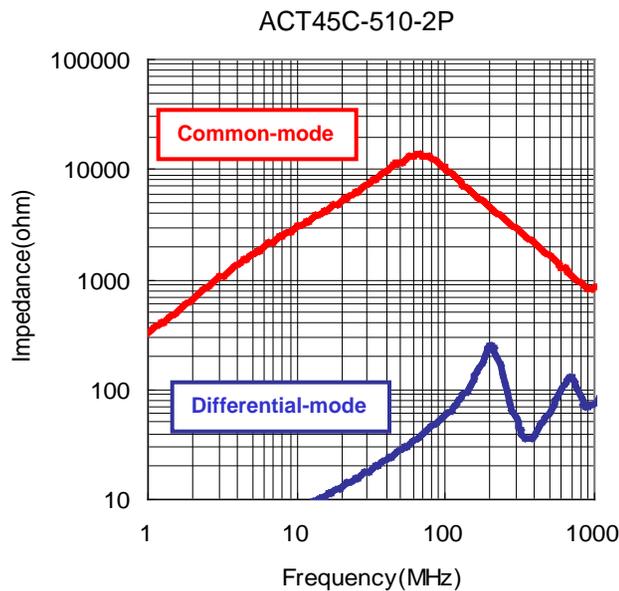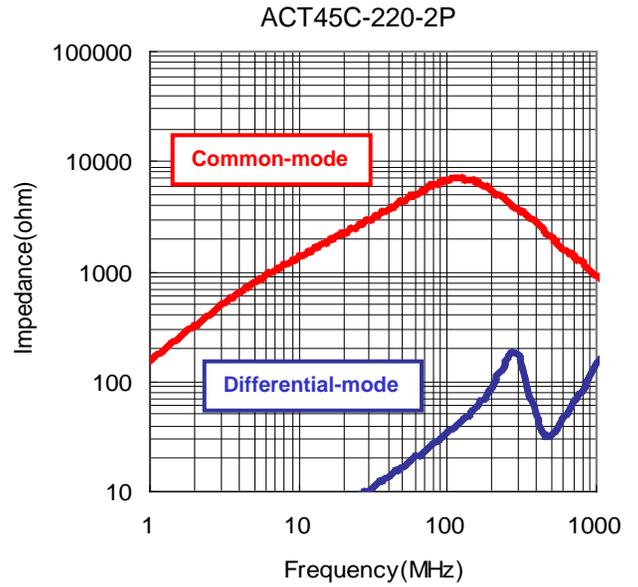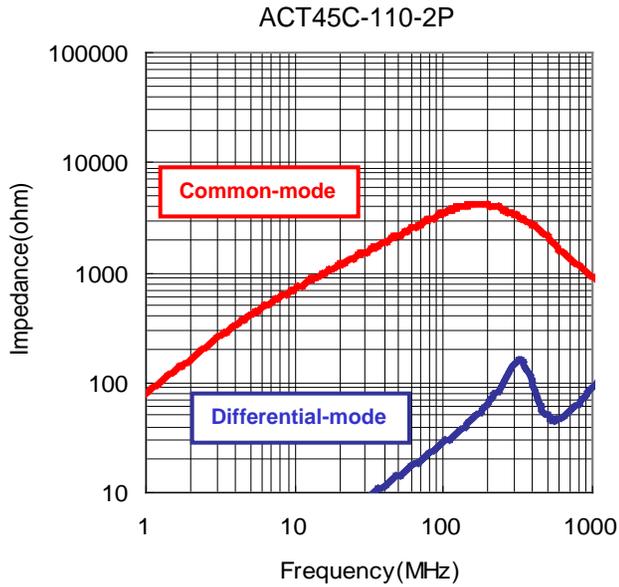
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