Common Mode Filters(SMD)
For CAN-BUS

Conformity to RoHS Directive

ACT Series ACT45B Type

FEATURES
- Operating temperature range covers from –40 to +150°C.
- Non-dissolution of the abutment amounts in circuit board mounting.
- The products contain no lead and also support lead-free soldering.
- This product conforms to the standards that are slated to be introduced under the RoHS Directive.

APPLICATIONS
CAN-BUS system, facsimiles, modems, ISDN

PACKAGING STYLE AND QUANTITIES

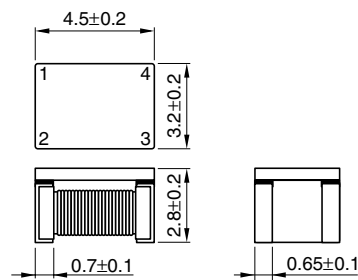| Packaging style	Quantity
Taping	2000 pieces/reel

PRODUCT IDENTIFICATION

ACT45B - 510 - 2P - TL - □□□
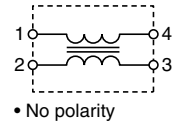(1)   (2)   (3)   (4)   (5)

(1) Series name
(2) Inductance value (typ.)
(3) Number of line
   2P: 2-line
(4) Packaging style
   TL: ø330mm reel taping
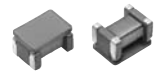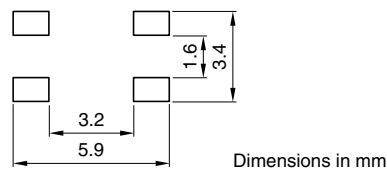(5) TDK internal code

SHAPES AND DIMENSIONS

4.5±0.2
3.2±0.2
2.8±0.2
0.7±0.1
0.65±0.1

CIRCUIT DIAGRAM

• No polarity

Weight: 0.14g

Dimensions in mm

RECOMMENDED PC BOARD PATTERN

1.6
3.4
3.2
5.9

Dimensions in mm

ELECTRICAL CHARACTERISTICS

| Part No.	Common mode impedance (Ω)[10MHz] min.	Common mode impedance (Ω)[10MHz] typ.	Common mode inductance (µH)+50/–30% [100kHz]	Stray inductance (µH)typ. [100kHz]	DC resistance (Ω)max.	Rated current (A)max.	Insulation resistance (MΩ)min.	Rated voltage (V)max.
ACT45B-110-2P	300	700	11	0.05	0.6	0.25	10	50
ACT45B-220-2P	500	1000	22	0.08	1.0	0.2	10	50
ACT45B-510-2P	1000	2000	51	0.15	1.0	0.2	10	50
ACT45B-101-2P	2000	5000	100	0.20	3.0	0.15	10	50

TYPICAL ELECTRICAL CHARACTERISTICS
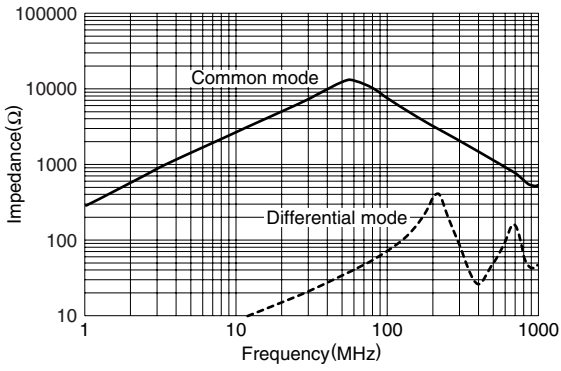### IMPEDANCE vs. FREQUENCY CHARACTERISTICS
ACT45B-110-2P
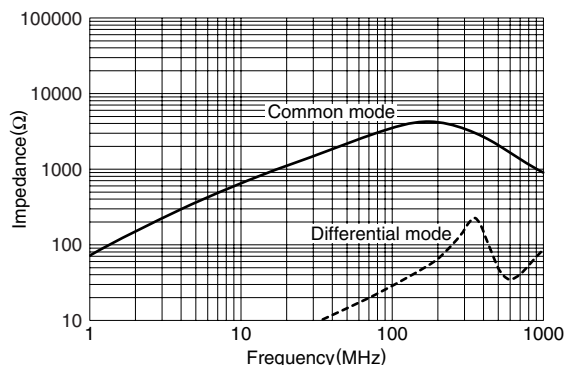
ACT45B-220-2P
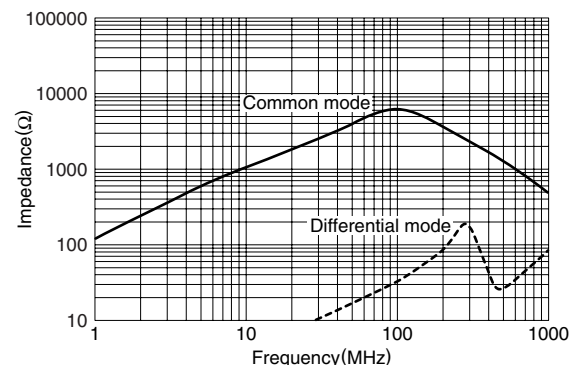
• Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

• All specifications are subject to change without notice.

TDK

TYPICAL ELECTRICAL CHARACTERISTICS
IMPEDANCE vs. FREQUENCY CHARACTERISTICS

ACT45B-510-2P

ACT45B-101-2P

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