⊗TDK

(1/2)

Common Mode Filters(SMD) For CAN-BUS

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.

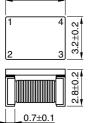
APPLICATIONS

CAN-BUS system, facsimiles, modems, ISDN

PACKAGING STYLE AND QUANTITIES

| Packaging style | Quantity |
|-----------------|------------------|
| Taping | 2000 pieces/reel |
| | |

SHAPES AND DIMENSIONS



• No polarity

CIRCUIT DIAGRAM

Weight: 0.14g Dimensions in mm

PRODUCT IDENTIFICATION

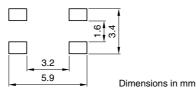
| ACT45B | - 510 - | 2P | - TL - | - 🗆 🗆 🗆 |
|--------|---------|-----|--------|---------|
| (1) | (2) | (3) | (4) | (5) |

(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



RECOMMENDED PC BOARD PATTERN

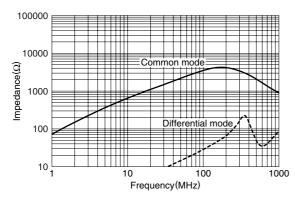


ELECTRICAL CHARACTERISTICS

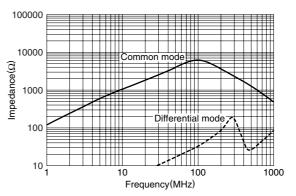
| Part No. | Common mode impedance (Ω)[10MHz] | | Common mode inductance (µH)+50/–30% | Stray inductance (μH)typ. [100kHz] | DC resistance (Ω)max. | Rated current (A)max. | Insulation resistance (MΩ)min. | Rated voltage (V)max. |
|---------------|--|------|---|--|--------------------------|-----------------------|--------------------------------------|--------------------------|
| | min. | typ. | [100kHz] | | | | (11122)111111. | |
| 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 | 0.1 | 10 | 50 |

TYPICAL ELECTRICAL CHARACTERISTICS IMPEDANCE vs. FREQUENCY CHARACTERISTICS ACT45B-110-2P

0.65±0.1



ACT45B-220-2P

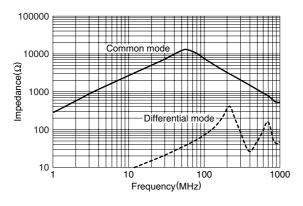


• Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

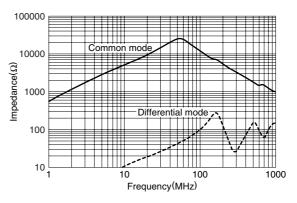
• All specifications are subject to change without notice.

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TYPICAL ELECTRICAL CHARACTERISTICS IMPEDANCE vs. FREQUENCY CHARACTERISTICS ACT45B-510-2P



ACT45B-101-2P



[•] All specifications are subject to change without notice.