

Common Mode Filters(SMD)

For CAN-BUS/FlexRay

ACT-B series

Type: ACT45B [1812 inch]*

* Dimensions Code JIS[EIA]

Issue date: December 2010

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

[•] 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.

&TDK

Common Mode Filters(SMD) For CAN-BUS/FlexRay

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/FlexRay system, facsimiles, modems, ISDN

PACKAGING STYLE AND QUANTITIES

Packaging style	Quantity
Taping	2000 pieces/reel

PRODUCT IDENTIFICATION

$$\frac{ACT45B}{(1)} - \frac{510}{(2)} - \frac{2P}{(3)} - \frac{TL}{(4)} - \frac{\Box\Box\Box}{(5)}$$

- (1) Series name
- (2) Inductance value (typ.)
- (3) Number of line

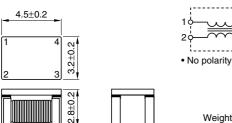
2P: 2-line

(4) Packaging style

TL: ø330mm reel taping

(5) TDK internal code

SHAPES AND DIMENSIONS

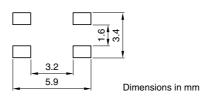


0.65±0.1

Weight: 0.14g

CIRCUIT DIAGRAM

RECOMMENDED PC BOARD PATTERN



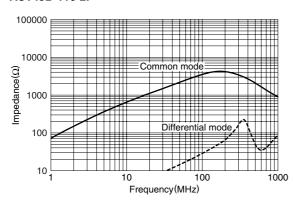


ELECTRICAL CHARACTERISTICS

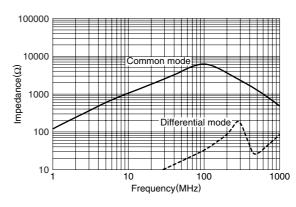
0.7±0.1

Part No.	Common mode impedance $(\Omega)[10MHz]$		Common mode inductance (µH)+50/-30%	Stray inductance (µH)typ. [100kHz]	DC resistance (Ω) max.	Rated current (A)max.	Insulation resistance $(M\Omega)$ min.	Rated voltage (V)max.
	min.	typ.	[100kHz]	[TOOKHZ]			(10152)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	0.15	10	50

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



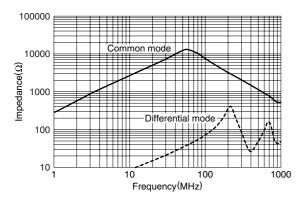
ACT45B-220-2P



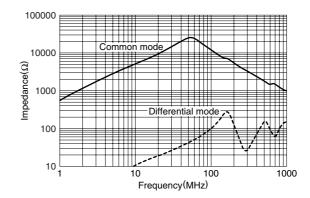
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TYPICAL ELECTRICAL CHARACTERISTICS IMPEDANCE vs. FREQUENCY CHARACTERISTICS ACT45B-510-2P



ACT45B-101-2P



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