Common Mode Filters

For automobile signal line

ACT series

Type:	**ACT45B**	**[1812 inch]* (CAN-BUS)**
	ACT45R	**[1812 inch] (FlexRay)**

*** Dimensions Code [EIA]**

Issue date: July 2012

- 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.

Common Mode Filters
For Automobile Signal Line

Conformity to RoHS Directive

ACT Series ACT45B

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, facsimiles, modems, ISDN

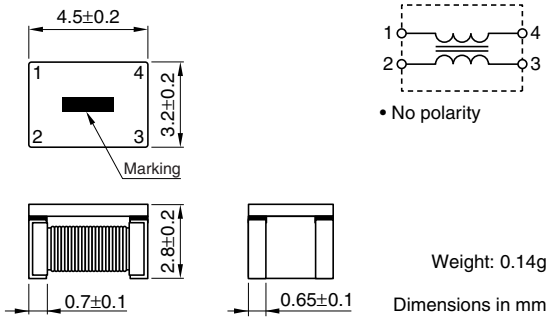
TEMPERATURE RANGES

Operating	–40 to +150°C
Storage(After mount)	–40 to +150°C

PACKAGING STYLE AND QUANTITIES

Packaging style	Quantity
Taping	2500 pieces/reel

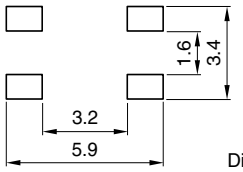
SHAPES AND DIMENSIONS/CIRCUIT DIAGRAM



Weight: 0.14g

Dimensions in mm

RECOMMENDED PC BOARD PATTERN



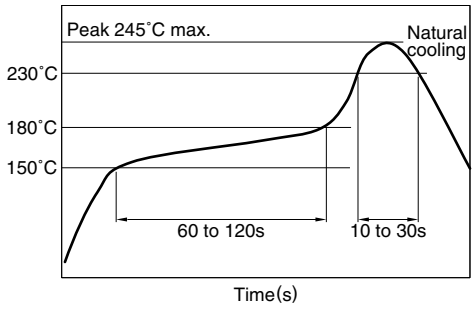
Dimensions in mm

PRODUCT IDENTIFICATION

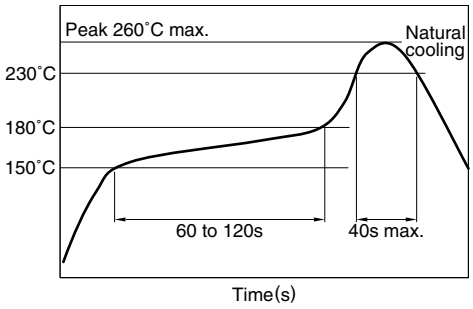
ACT45B	-	510	-	2P	-	TL		□□□
(1)		(2)		(3)		(4)		(5)

(1) Series name
(2) Inductance value (typ.)
510: 51µH
(3) Number of line
2P: 2-line
(4) Packaging style
TL: ø330mm reel taping
(5) TDK internal code

RECOMMENDED SOLDERING CONDITIONS
RECOMMENDED TEMPERATURE PROFILE FOR LEAD-FREE SOLDER



REFLOW PROFILE FOR SOLDER HEAT RESISTANCE



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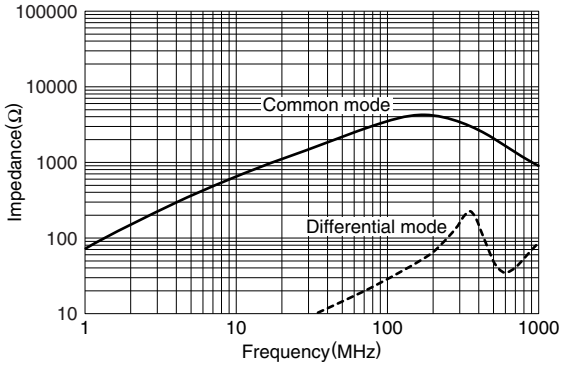
ELECTRICAL CHARACTERISTICS

Part No.	Common mode impedance (Ω)[10MHz]		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.
	min.	typ.						
ACT45B-110-2P	300	600	11	0.05	0.6	0.25	10	50
ACT45B-220-2P	500	1200	22	0.08	1.0	0.2	10	50
ACT45B-510-2P	1000	2800	51	0.15	1.0	0.2	10	50
ACT45B-101-2P	2000	5800	100	0.20	2.0	0.15	10	50

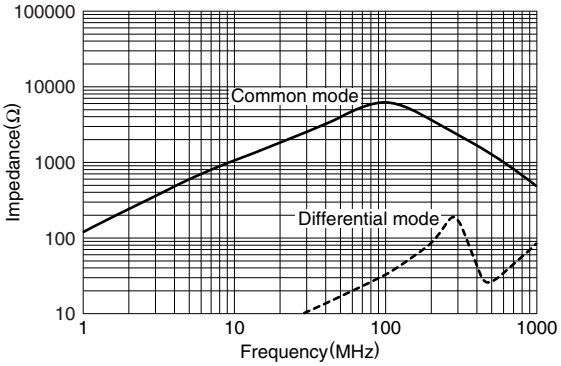
TYPICAL ELECTRICAL CHARACTERISTICS

IMPEDANCE vs. FREQUENCY CHARACTERISTICS

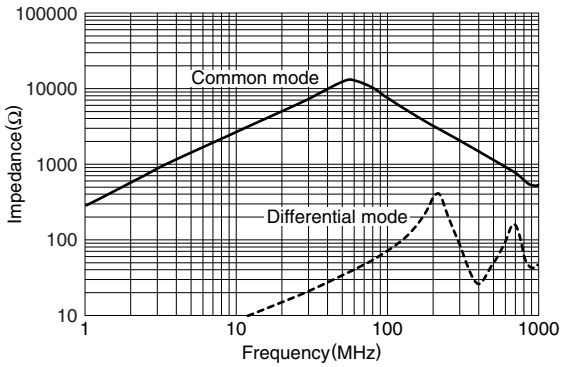
ACT45B-110-2P



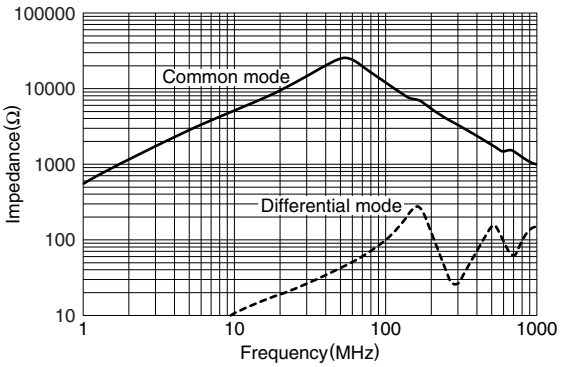
ACT45B-220-2P



ACT45B-510-2P



ACT45B-101-2P



Common Mode Filters
For Automobile Signal Line

Conformity to RoHS Directive

ACT Series ACT45R

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

FlexRay system

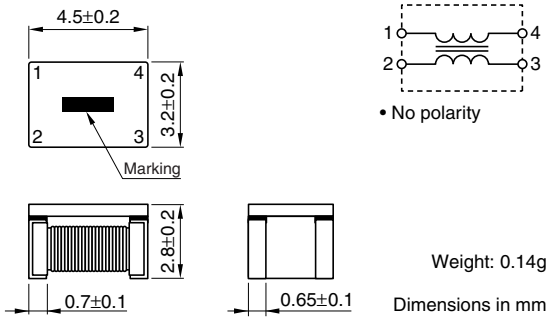
TEMPERATURE RANGES

Operating	–40 to +150°C
Storage(After mount)	–40 to +150°C

PACKAGING STYLE AND QUANTITIES

Packaging style	Quantity
Taping	2500 pieces/reel

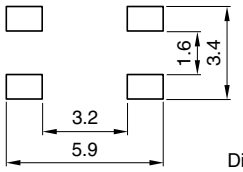
SHAPES AND DIMENSIONS/CIRCUIT DIAGRAM



Weight: 0.14g

Dimensions in mm

RECOMMENDED PC BOARD PATTERN



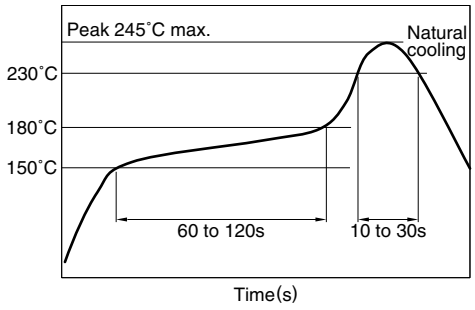
Dimensions in mm

PRODUCT IDENTIFICATION

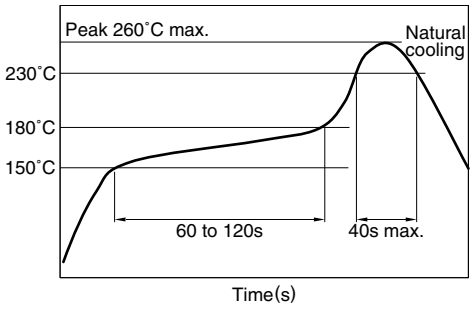
ACT45R	-	101	-	2P	-	TL		□□□
(1)		(2)		(3)		(4)		(5)

(1) Series name
(2) Inductance value (typ.)
101: 100µH
(3) Number of line
2P: 2-line
(4) Packaging style
TL: ø330mm reel taping
(5) TDK internal code

RECOMMENDED SOLDERING CONDITIONS
RECOMMENDED TEMPERATURE PROFILE FOR LEAD-FREE SOLDER



REFLOW PROFILE FOR SOLDER HEAT RESISTANCE



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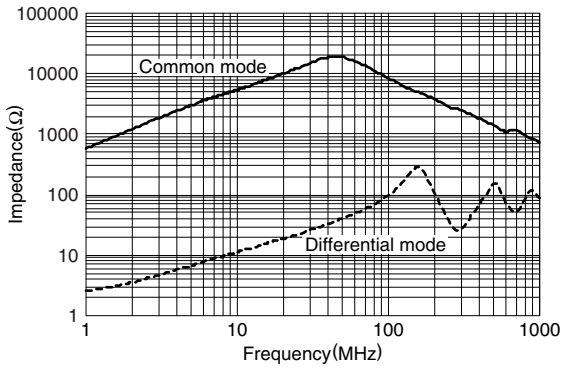
ELECTRICAL CHARACTERISTICS

Part No.	Common mode impedance (Ω)[10MHz]		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.
	min.	typ.						
ACT45R-101-2P-TL001	2200	5500	100	0.2	1.5	0.2	10	50

TYPICAL ELECTRICAL CHARACTERISTICS

IMPEDANCE vs. FREQUENCY CHARACTERISTICS



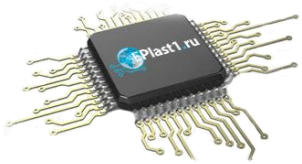
Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits,General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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