

EMC Components

Dual-Mode Filters

SMD

ACT Series ACT4532 Type

The car electronics devices have tendency to be connected each other to form the automobile internal network system. The EMC prevention products are required their high reliability and to be suitable for automotive environment.

This product shows its high reliability for automotive environment. With controlling the coupling factor of two coils, it also shows high impedance of both differential mode and common mode. This product is a dual-mode filter of 4532 case size that is good for wide frequency range.

FEATURES

- Both differential mode and common mode EMC can be reduced at the same time because of its unique coil-winding method and coupling factor control.
- Combining ferrite bobbin core with ferrite enclosure, we could achieve 4532 case size. It enables you to save the mounting space to one half compared with existing products.

APPLICATIONS

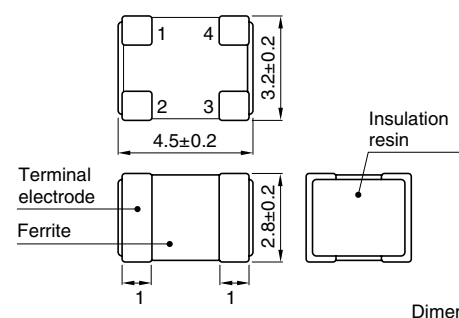
This product is a SMD type EMC filter which corresponds to a tendency of automobile internal network system.

PRODUCT IDENTIFICATION

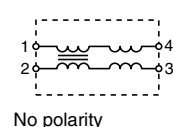
ACT	4532	-102	-2P	-T
(1)	(2)	(3)	(4)	(5)

- | | |
|----------------------------|------------------------|
| (1) Series | (4) Number of lines |
| (2) Dimensions L×W | 2P:2-line |
| 4532: 4.5×3.2mm | (5) Packaging style |
| (3) Impedance[Common mode] | T: ø178mm reel taping |
| 102: 1000Ω | TL: ø330mm reel taping |

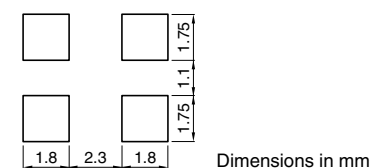
SHAPES AND DIMENSIONS



CIRCUIT DIAGRAM



RECOMMENDED PC BOARD PATTERN



ELECTRICAL CHARACTERISTICS

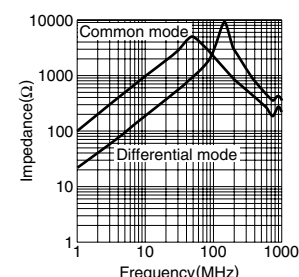
Impedance [at 10MHz]	Common mode	750Ω min.
	Differential mode	300Ω max.
Current resistance	Rdc	1Ω max.[1Line]
Rated voltage	E _{dc}	20V max.
Rated current	I _{dc}	100mA max.
Insulation resistance	IR	10MΩ min.

PHYSICAL CHARACTERISTICS

Resistance to solder heat	260±5°C	10±1s
Solderability	230±5°C	4±0.5s
Substrate strength	2mm min.	
Shear(Adhesion) strength	9.8N[1kgf] min.	

TYPICAL ELECTRICAL CHARACTERISTICS

IMPEDANCE vs.FREQUENCY CHARACTERISTICS



PACKAGING STYLE AND QUANTITIES

Packaging style		Quantity
Taping	T	500pieces/reel
	TL	2000pieces/reel