EMC Components

Dual-Mode Filters SMD

able for automotive environment.

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 suit-

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.

ACT Series ACT4532 Type

APPLICATIONS

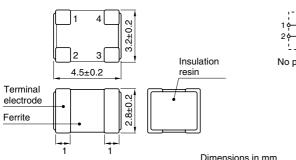
This product is a SMD type EMC filter which corresponds to a tendency of automobile internal network system.

PRODUCT IDENTIFICATION

$$\frac{ACT}{(1)} \frac{4532}{(2)} \frac{-102}{(3)} \frac{-2P}{(4)} - \frac{T}{(5)}$$

- (1) Series
- (2) Dimensions L×W
 - 4532: 4.5×3.2mm
- (3) Impedance[Common mode] 102: 1000Ω
- (4) Number of lines
 - 2P:2-line
- (5) Packaging style
 - T: Ø178mm reel taping
 TL: Ø330mm reel taping

SHAPES AND DIMENSIONS

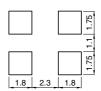


CIRCUIT DIAGRAM





RECOMMENDED PC BOARD PATTERN



Dimensions in mm

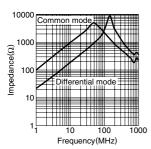
ELECTRICAL CHARACTERISTICS

Impedance	Common mode	750Ω min.	
[at 10MHz]	Differential mode	300Ω max.	
Current resistance	Rdc	1Ω max.[1Line]	
Rated voltage	Edc	20V max.	
Rated current	ldc	100mA max.	
Insulation resistance	IR	10M Ω 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 sty	le	Quantity
Taping	Т	500pieces/reel
	TL	2000pieces/reel

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