

# 3-terminal Filters(SMD) For Power Line

Conformity to RoHS Directive

## ACH Series ACH32C Type

### FEATURES

- These T-type EMC filters comprise ferrite beads and chip capacitors and are engineered to handle high current levels.
- They provide highly effective EMC suppression.
- Because their structures are almost entirely ferrite, they exhibit excellent attenuation characteristics.
- Because guarantee temperature range is  $-40$  to  $+125^{\circ}\text{C}$ , it is possible to use in strict environmental condition.
- Available for reflow soldering.

### APPLICATIONS

Home electronic equipment, (TVs, VCRs, CD players, DAT players, electric musical instruments, PCs, etc.), office automation equipment (computers, terminals, stand-alone word processors, fax machines, etc.), factory automation equipment (robots, numerical control devices, process controllers, etc.), automotive electronics (car navigation, ECU, etc.)

### PRODUCT IDENTIFICATION

ACH 32C - 103 - T □□□  
(1) (2) (3) (4) (5)

- (1) Series name  
(2) Dimensions  
32C: 3216 type(3.2×1.6mm)  
(3) Capacitance  
103: 10000pF  
(4) Packaging style  
T:  $\phi$ 180mm reel taping  
TL:  $\phi$ 330mm reel taping  
(5) TDK internal code

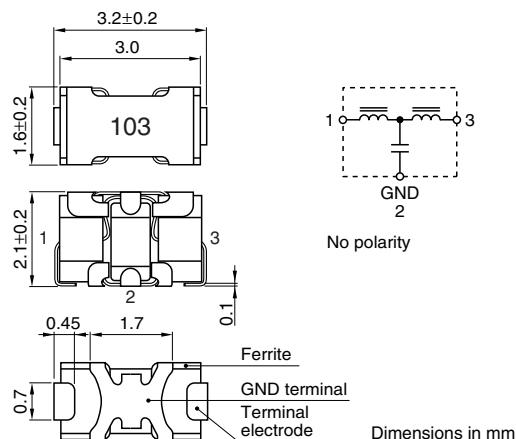
### TEMPERATURE RANGES

Operating/Storage	$-40$ to $+125^{\circ}\text{C}$
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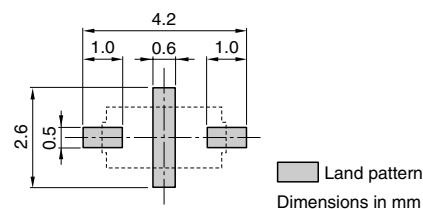
### PACKAGING STYLE AND QUANTITIES

Packaging style	Reel	Quantity
Taping	$\phi$ 180mm	2000 pieces/reel
	$\phi$ 330mm	10000 pieces/reel

### SHAPES AND DIMENSIONS/CIRCUIT DIAGRAM



### RECOMMENDED PC BOARD PATTERN REFLOW SOLDERING



- 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.
- Please contact our Sales office when your application are considered the following:  
The device's failure or malfunction may directly endanger human life (e.g. application for automobile/aircraft/medical/nuclear power devices, etc.)

• All specifications are subject to change without notice.

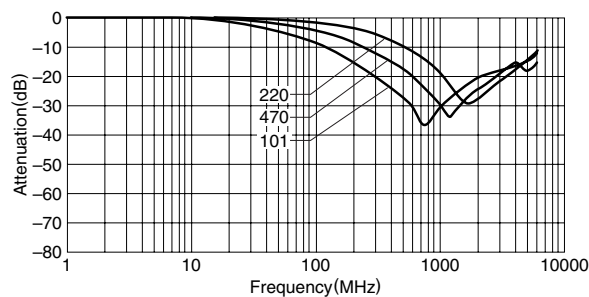
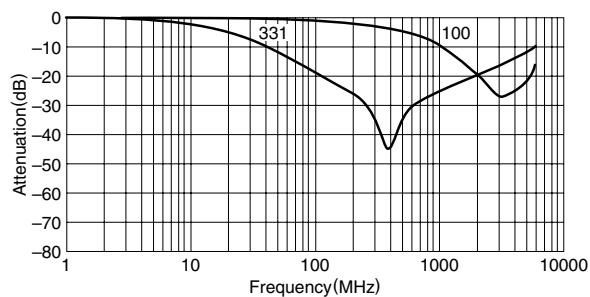
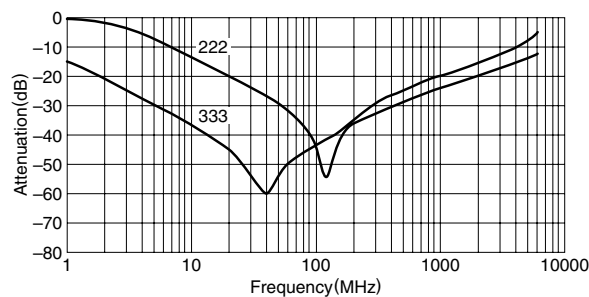
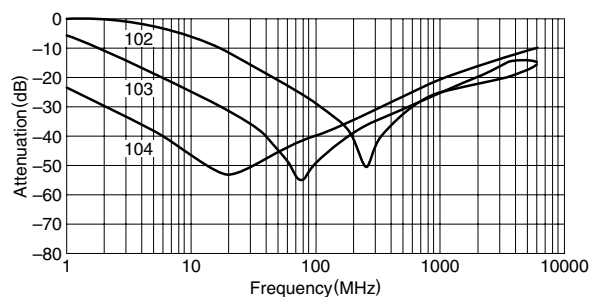
## ELECTRICAL CHARACTERISTICS

Part No.	Rated voltage E <sub>dc</sub> (V)max.	Rated current (A)max.	Insulation resistance (M $\Omega$ )min.	DC resistance (m $\Omega$ )max.	Guaranteed attenuation (dB)	Guaranteed frequency bandwidth (MHz)
ACH32C-100-T001	50	6	100	2	-15	2000 to 6000
ACH32C-220-T001	50	6	100	2	-15	1300 to 2500
ACH32C-470-T001	50	6	100	2	-15	650 to 2500
ACH32C-101-T001	50	6	100	2	-20	450 to 1300
ACH32C-331-T001	50	6	100	2	-20	200 to 800
ACH32C-102-T001	50	6	100	2	-25	100 to 350
ACH32C-222-T001	50	6	100	2	-25	55 to 300
ACH32C-103-T001	50	6	100	2	-25	30 to 200
ACH32C-333-T001	50	6	100	2	-25	10 to 300
ACH32C-104-T001	50	6	100	2	-25	3.5 to 200

## TYPICAL ELECTRICAL CHARACTERISTICS

### ATTENUATION vs. FREQUENCY CHARACTERISTICS

(Glass epoxy coated double side mounting PCB)



## CIRCUIT DIAGRAM

