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# Clamp Filters For Cable

**Conformity to RoHS Directive**

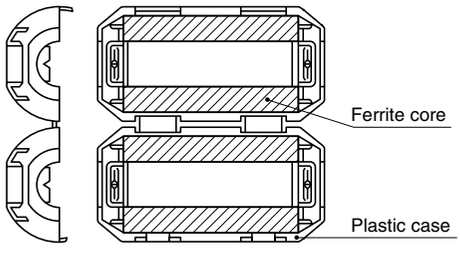
## ZCAT Series

### FEATURES

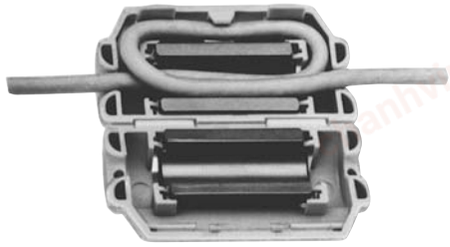
- Unique plastic case ensures simple, convenient installation and includes a self-holding mechanism to prevent slippage on cables.
- Ferrite core provides excellent absorption of high-frequency EMC.
- Highly effective as countermeasure against common mode EMC without adverse effect on signal quality.
- Large core size prevents saturation during large signal surges.



### INTERNAL CONSTRUCTION




### ZCAT-C TYPE



### APPLICATIONS

Personal computers, word processors, monitors, hard disk drives, digital telephones, audio devices, electronic musical instruments, video games, copiers and facsimiles.

### PRODUCT IDENTIFICATION

| ZCAT | 24 | 36 | – | 13 | 30 | A | – | BK |
|---|---|---|---|---|---|---|---|---|
| (1) | (2) | (3) | | (4) | (5) | (6) | | (7) |

(1) Series name
(2) Outer dimensions(mm)
(3) Length(mm)
(4) Inner dimensions(mm)
(5) Material code
(6) Fixed type code
A: Cable fixed
Hold the cable to secure it with the main body
AP:Cable fixed
(with lock mechanism)
B: Clamp fixed
C: Cable coil securing type
(Coil the cable one time within the case to fix it/with lock mechanism.)
D: Flat cable type
DT: Flat cable type (Hold with adhesive pad.)
Non code: Band fixed
(Secure the cable and main body with the nylon belt.)
(7) Outer color code
BK: Black
Non code: Gray

### PACKAGING STYLE AND QUANTITIES

| Part No. | Quantity |
|---|---|
| ZCAT3035 | 200 pieces/box |
| ZCAT2017-B | 350 pieces/box |
| ZCAT2235 | 400 pieces/box |
| ZCAT2436 | 400 pieces/box |
| ZCAT2032 | 420 pieces/box |
| ZCAT2035 | 480 pieces/box |
| ZCAT2132 | 480 pieces/box |
| ZCAT2749 | 400 pieces/box |
| ZCAT1730 | 840 pieces/box |
| ZCAT2017 | 640 pieces/box |
| ZCAT1325 | 1344 pieces/box |
| ZCAT1518 | 896 pieces/box |
| ZCAT1525 | 900 pieces/box |
| ZCAT3618-D | 480 pieces/box |
| ZCAT4625-D | 240 pieces/box |
| ZCAT6819-D | 160 pieces/box |

- 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.

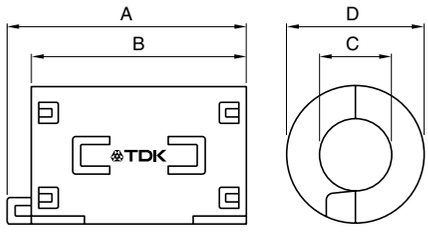
• All specifications are subject to change without notice.

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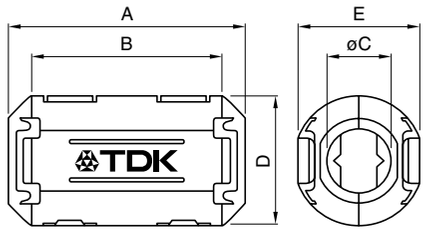


## SHAPES AND DIMENSIONS

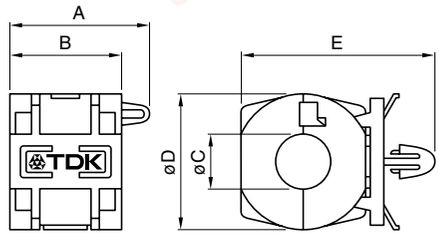
### ZCAT TYPE



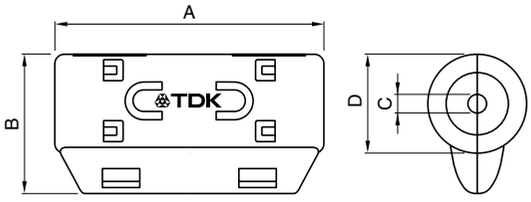

### ZCAT-A, ZCAT-AP TYPE



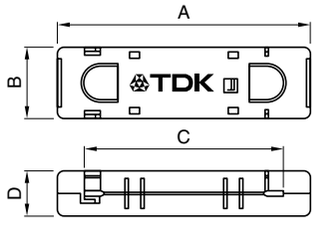

### ZCAT-B TYPE




### ZCAT-C TYPE




### ZCAT-D TYPE




Applicable cable thickness: 1.3mm max.

Dimensions in mm

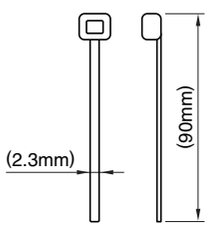
| Part No. | A | B | øC | øD | E | Applicable cable outer dia. | Weight(g) | Impedance freq. characteristics Fig. |
|---|---|---|---|---|---|---|---|---|
| ZCAT1518-0730(BK)*1 | 22±1 | 18±1 | 7±1 | 15±1 | – | 7max. | 6 | 1 |
| ZCAT2017-0930(-BK)*1 | 21±1 | 17±1 | 9±1 | 20±1 | – | 9max. | 11 | 2 |
| ZCAT2032-0930(-BK)*1 | 36±1 | 32±1 | 9±1 | 19.5±1 | – | 9max. | 22 | 3 |
| ZCAT2132-1130(-BK)*1 | 36±1 | 32±1 | 11±1 | 20.5±1 | – | 11max. | 22 | 4 |
| ZCAT3035-1330(-BK)*1 | 39±1 | 34±1 | 13±1 | 30±1 | – | 13max. | 63 | 5 |
| ZCAT1525-0430AP(-BK) | 25±1 | 20±1 | 4±1 | 15±1 | 11.5±1 | 2.5 to 4(USB) | 7 | 4 |
| ZCAT1325-0530A(-BK) | 25±1 | 20±1 | 5±1 | 12.8±1 | 11.2±1 | 3 to 5(USB) | 7 | 4 |
| ZCAT1730-0730A(-BK) | 30±1 | 23±1 | 7±1 | 16.5±1 | 15±1 | 4 to 7(USB/IEEE1394) | 12 | 6 |
| ZCAT2035-0930A(-BK) | 35±1 | 28±1 | 9±1 | 19.5±1 | 17.4±1 | 6 to 9 | 22 | 3 |
| ZCAT2235-1030A(-BK) | 35±1 | 28±1 | 10±1 | 21.5±1 | 20±1 | 8 to 10 | 27 | 7 |
| ZCAT2436-1330A(-BK) | 36±1 | 29±1 | 13±1 | 23.5±1 | 22±1 | 10 to 13 | 29 | 8 |
| ZCAT2017-0930B(-BK) | 21±1 | 17±1 | 9±1 | 20±1 | 28.5±1 | 9max. | 12 | 2 |
| ZCAT2749-0430C(-BK) | 49±1 | 27±1 | 4.5±1 | 19.5±1 | – | 4.5max. | 26 | 9 |
| ZCAT3618-2630D(-BK) | 33.5±1 | 17.5±1 | 26±1 | 11.5±1 | – | For 20 wires flat cable | 15 | 10 |
| ZCAT3618-2630DT(-BK)*2 | 33.5±1 | 17.5±1 | 26±1 | 12.5±1 | – | For 20 wires flat cable | 15 | 10 |
| ZCAT4625-3430D(-BK) | 45.5±1 | 24.5±1 | 34±1 | 12±1 | – | For 26 wires flat cable | 32 | 11 |
| ZCAT4625-3430DT(-BK)*2 | 45.5±1 | 24.5±1 | 34±1 | 13±1 | – | For 26 wires flat cable | 32 | 11 |
| ZCAT6819-5230D(-BK) | 67.5±1 | 18.5±1 | 52±1 | 16±1 | – | For 40 wires flat cable | 58 | 11 |
| ZCAT6819-5230DT(-BK)*2 | 67.5±1 | 18.5±1 | 52±1 | 17±1 | – | For 40 wires flat cable | 58 | 11 |

*1 These products are delivered with fixed band.

*2 ZCAT-DT type: Adapted for flat cables and hold with adhesive pad.

- ZCAT-B type: Clamp fixed type installation hole diameter ø4.8 to 4.9mm, thickness of board 0.5 to 2mm.
- ZCAT-AP, ZCAT-C type: Once closed, the case will not be easily opened manually.

## STRUCTURE OF THE MOUNTING BAND




Material: 66-nylon(natural color)

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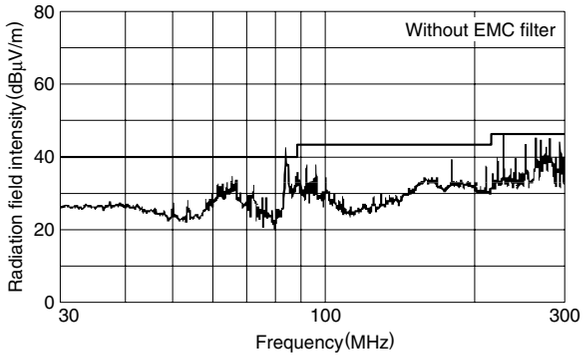


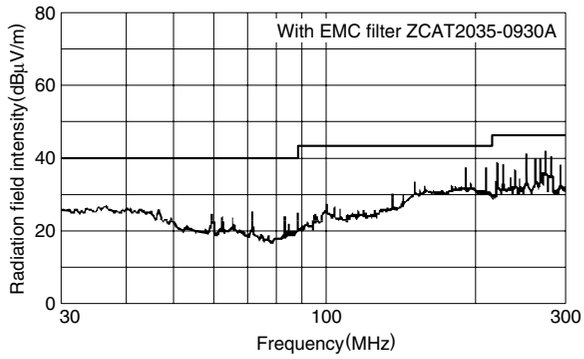
## ELECTRICAL CHARACTERISTICS

| Part No. | Impedance (Ω)min.[50 to 500MHz] |
|---|---|
| ZCAT1518-0730 | 35 |
| ZCAT2017-0930 | 35 |
| ZCAT2032-0930 | 80 |
| ZCAT2132-1130 | 50 |
| ZCAT3035-1330 | 100 |
| ZCAT1525-0430AP | 50 |
| ZCAT1325-0530A | 50 |
| ZCAT1730-0730A | 50 |
| ZCAT2035-0930A | 80 |
| ZCAT2235-1030A | 80 |
| ZCAT2436-1330A | 50 |
| ZCAT2017-0930B | 35 |
| ZCAT2749-0430C | 80 |
| ZCAT3618-2603D(T) | 30 |
| ZCAT4625-3430D(T) | 35 |
| ZCAT6819-5230D(T) | 35 |

- Test conditions: R-X meter at unloaded condition, ø1mm solder plated copper wire passes through.

## TYPICAL EMC SUPPRESSION EFFECTS
## RADIATION LEVEL vs. FREQUENCY CHARACTERISTICS




## TYPICAL ELECTRICAL CHARACTERISTICS
## IMPEDANCE vs. FREQUENCY CHARACTERISTICS

**ZCAT1518-0730**

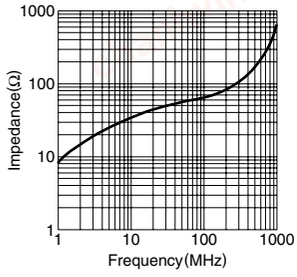



Fig.1

**ZCAT2017-0930**

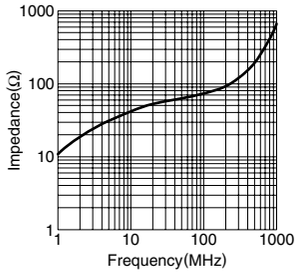



Fig.2

**ZCAT2032-0930**
**ZCAT2035-0930A**

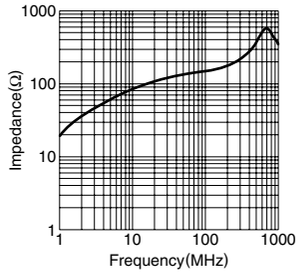



Fig.3

**ZCAT1525-0430AP**
**ZCAT2132-1130**
**ZCAT1325-0530A**

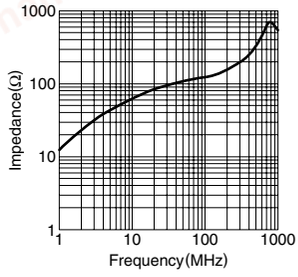



Fig.4

**ZCAT3035-1330**

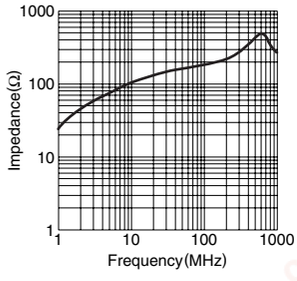



Fig.5

**ZCAT1730-0730A**

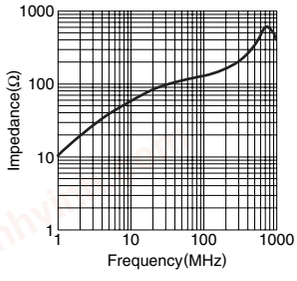



Fig.6

**ZCAT2235-1030A**

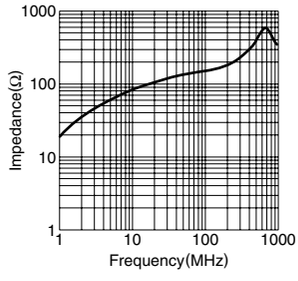



Fig.7

**ZCAT2436-1330A**

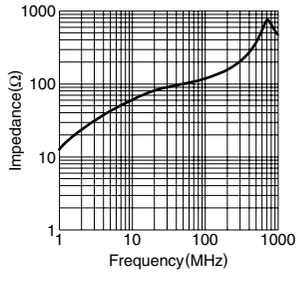



Fig.8

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## TYPICAL ELECTRICAL CHARACTERISTICS

## IMPEDANCE vs. FREQUENCY CHARACTERISTICS

**ZCAT2749-0430C**

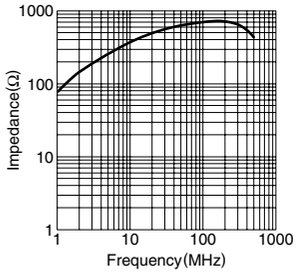



Fig.9

**ZCAT3618-2630D**

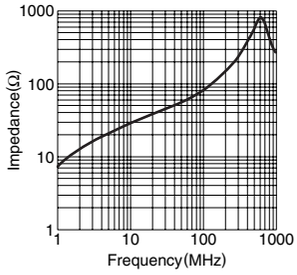



Fig.10

**ZCAT4625-3430D**
**ZCAT6819-5230D**

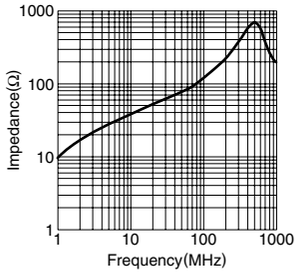



Fig.11