



Clamp filters (Ferrite core with case)

For cable

ZCAT series

ZCAT

ZCAT-A

ZCAT-B

ZCAT-D/-DT

REMINDERS FOR USING THESE PRODUCTS

Before using these products, be sure to request the delivery specifications.

SAFETY REMINDERS

Please pay sufficient attention to the warnings for safe designing when using this products.

REMINDERS

- The storage period is less than 6 months. Be sure to follow the storage conditions (temperature: 5 to 40°C, humidity: 20 to 70% RH or less).
If the storage period elapses, the soldering of the terminal electrodes may deteriorate.
- Do not use or store in locations where there are conditions such as gas corrosion (salt, acid, alkali, etc.).
- Before soldering, be sure to preheat components.
The preheating temperature should be set so that the temperature difference between the solder temperature and chip temperature does not exceed 150°C.
- Soldering corrections after mounting should be within the range of the conditions determined in the specifications.
If overheated, a short circuit, performance deterioration, or lifespan shortening may occur.
- When embedding a printed circuit board where a chip is mounted to a set, be sure that residual stress is not given to the chip due to the overall distortion of the printed circuit board and partial distortion such as at screw tightening portions.
- Self heating (temperature increase) occurs when the power is turned ON, so the tolerance should be sufficient for the set thermal design.
- Carefully lay out the coil for the circuit board design of the non-magnetic shield type.
A malfunction may occur due to magnetic interference.
- Use a wrist band to discharge static electricity in your body through the grounding wire.
- Do not expose the products to magnets or magnetic fields.
- Do not use for a purpose outside of the contents regulated in the delivery specifications.
- The products listed on this catalog are intended for use in general electronic equipment (AV equipment, telecommunications equipment, home appliances, amusement equipment, computer equipment, personal equipment, office equipment, measurement equipment, industrial robots) under a normal operation and use condition.
The products are not designed or warranted to meet the requirements of the applications listed below, whose performance and/or quality require a more stringent level of safety or reliability, or whose failure, malfunction or trouble could cause serious damage to society, person or property.
If you intend to use the products in the applications listed below or if you have special requirements exceeding the range or conditions set forth in the each catalog, please contact us.

- (1) Aerospace/aviation equipment
- (2) Transportation equipment (cars, electric trains, ships, etc.)
- (3) Medical equipment
- (4) Power-generation control equipment
- (5) Atomic energy-related equipment
- (6) Seabed equipment
- (7) Transportation control equipment

- (8) Public information-processing equipment
- (9) Military equipment
- (10) Electric heating apparatus, burning equipment
- (11) Disaster prevention/crime prevention equipment
- (12) Safety equipment
- (13) Other applications that are not considered general-purpose applications

When designing your equipment even for general-purpose applications, you are kindly requested to take into consideration securing protection circuit/device or providing backup circuits in your equipment.

Clamp filters

For cable

Product compatible with RoHS directive
Halogen-free

Overview of the ZCAT series

FEATURES

- Using TDK's unique structure where the ferrite core is mounted and integrated in a plastic case, it is possible to attach them to interface cables and power cables with one touch without having to cut the cables.
- Have excellent absorption of high-frequency noise using the high-frequency absorption characteristics of the ferrite core.
- Effective for common mode noise, so can be implemented as a noise countermeasure without influencing signal quality.
- Series are according to the outer diameter of the cable in order to be compatible with various cable sizes.

APPLICATION

PCs, word processors, monitors, HDDs, digital telephones, audio equipment, electronic musical instruments, video games, copiers, and facsimiles

PART NUMBER CONSTRUCTION

ZCAT	12	36	-	13	30	A	BK
Series name	Outer diameter dimensions (mm)	Length dimensions (mm)		Inner diameter dimensions (mm)	Core material code	Fixing type code	Outer color code
						A	BK Black
						B	Non code Gray
						D	
						DT	
						Non code	

OPERATING TEMPERATURE RANGE, PACKAGE QUANTITY, PRODUCT WEIGHT

Type	Operating temperature* (°C)	Temperature range		Package quantity (pieces/box)	Individual weight (g)
		Storage condition after engagement (°C)	Temperature range for engagement work (°C)		
ZCAT3035	-25 to +85	-25 to +85	0 to +50°C	200	64.8
ZCAT2017-B	-25 to +85	-25 to +85	0 to +50°C	350	11.5
ZCAT2235	-25 to +85	-25 to +85	0 to +50°C	400	26.0
ZCAT2436	-25 to +85	-25 to +85	0 to +50°C	400	29.0
ZCAT2032	-25 to +85	-25 to +85	0 to +50°C	420	22.7
ZCAT2035	-25 to +85	-25 to +85	0 to +50°C	480	21.2
ZCAT2132	-25 to +85	-25 to +85	0 to +50°C	480	21.6
ZCAT1730	-25 to +85	-25 to +85	0 to +50°C	840	11.6
ZCAT2017	-25 to +85	-25 to +85	0 to +50°C	640	11.0
ZCAT1325	-25 to +85	-25 to +85	0 to +50°C	1,344	6.37
ZCAT1518	-25 to +85	-25 to +85	0 to +50°C	896	6.1
ZCAT3618-D	-25 to +85	-25 to +85	0 to +50°C	480	15.6
ZCAT4625-D	-25 to +85	-25 to +85	0 to +50°C	240	32.5
ZCAT6819-D	-25 to +85	-25 to +85	0 to +50°C	160	58.4
ZCAT10D	-25 to +85	-25 to +85	0 to +50°C	770	5.6
ZCAT13D	-25 to +85	-25 to +85	0 to +50°C	450	14.8
ZCAT20D	-25 to +85	-25 to +85	0 to +50°C	320	46.3

*Operating temperature range includes self-temperature rise.

RoHS Directive Compliant Product: See the following for more details. <https://product.tdk.com/info/en/environment/rohs/index.html>

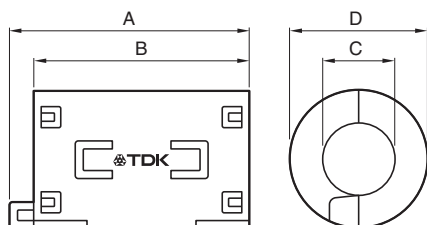
Halogen-free: Indicates that Cl content is less than 900ppm, Br content is less than 900ppm, and that the total Cl and Br content is less than 1500ppm.

Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use.
Please note that the contents may change without any prior notice due to reasons such as upgrading.

ZCAT series

ZCAT type

■ SHAPE & DIMENSIONS

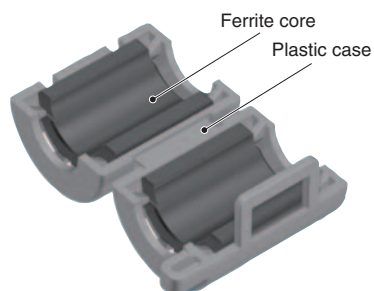


Dimensions in mm

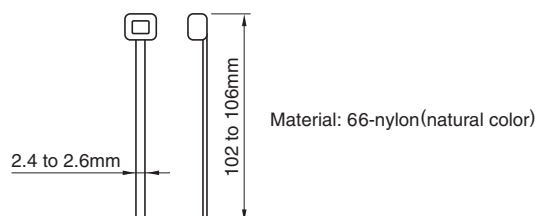
Part No.	A	B	C	D	E	Applicable cable outer diameter
ZCAT1518-0730(-BK)*	22±1	18±1	7±1	15±1	—	7max.
ZCAT2017-0930(-BK)*	21±1	17±1	9±1	20±1	—	9max.
ZCAT2032-0930(-BK)*	36±1	32±1	9±1	19.5±1	—	9max.
ZCAT2132-1130(-BK)*	36±1	32±1	11±1	20.5±1	—	11max.
ZCAT3035-1330(-BK)*	39±1	34±1	13±1	30±1	—	13max.

*A fixing band is included when shipped.

■ INTERNAL CONSTRUCTION



■ STRUCTURE OF THE FIXING BAND



ZCAT series **ZCAT type**

■ ELECTRICAL CHARACTERISTICS

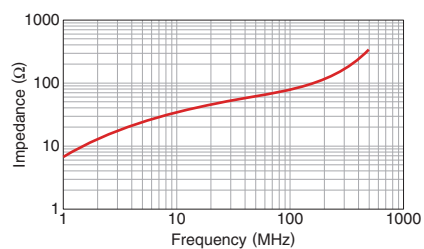
□ CHARACTERISTICS SPECIFICATION TABLE

Impedance(Ω)min.			Part No.
[10 to 100MHz]	[100 to 500MHz]	[50 to 500MHz]	
25	50	—	ZCAT1518-0730(-BK)
20	50	—	ZCAT2017-0930(-BK)
50	100	—	ZCAT2032-0930(-BK)
40	80	—	ZCAT2132-1130(-BK)
80	150	—	ZCAT3035-1330(-BK)

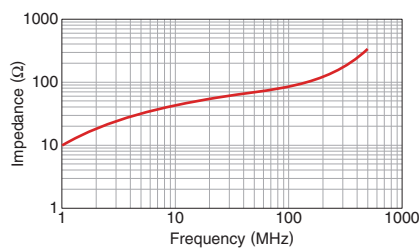
• Test conditions: When passing through an impedance meter (unloaded) ϕ 1mm copper cable

□ IMPEDANCE VS. FREQUENCY CHARACTERISTICS

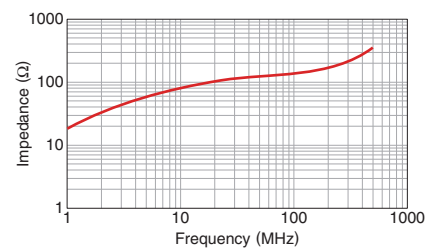
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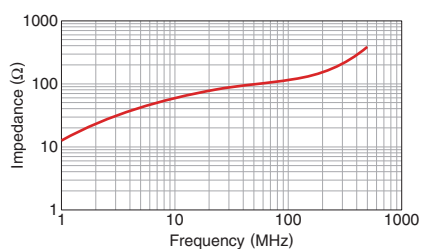
ZCAT2017-0930



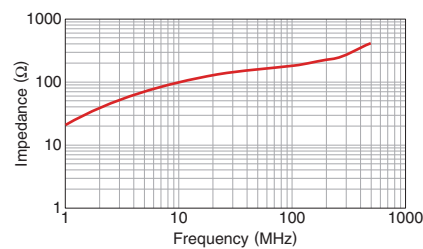
ZCAT2032-0930



ZCAT2132-1130



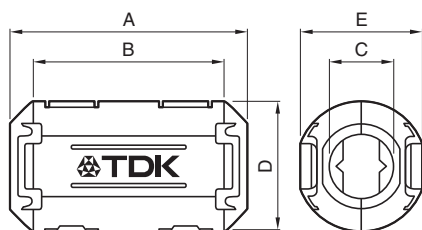
ZCAT3035-1330



ZCAT series

ZCAT-A type

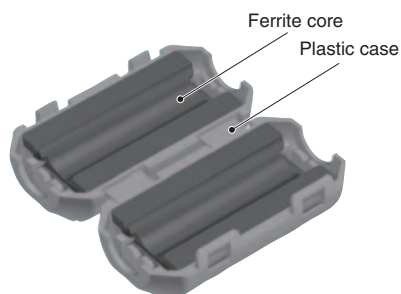
■ SHAPE & DIMENSIONS



Dimensions in mm

Part No.	A	B	C	D	E	Applicable cable outer diameter
ZCAT1325-0530A(-BK)	25±1	20±1	5±1	12.8±1	11.2±1	3 to 5(USB)
ZCAT1730-0730A(-BK)	30±1	23±1	7±1	16.5±1	15±1	4 to 7(USB/IEEE1394)
ZCAT2035-0930A(-BK)	35±1	28±1	9±1	19.5±1	17.4±1	6 to 9
ZCAT2235-1030A(-BK)	35±1	28±1	10±1	21.5±1	20±1	8 to 10
ZCAT2436-1330A(-BK)	36±1	29±1	13±1	23.5±1	22±1	10 to 13

■ INTERNAL CONSTRUCTION



ZCAT series **ZCAT-A type**

■ ELECTRICAL CHARACTERISTICS

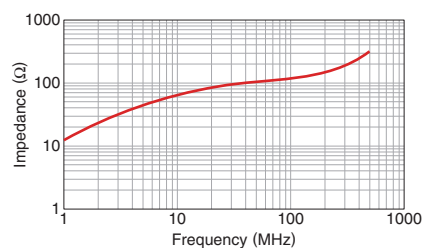
□ CHARACTERISTICS SPECIFICATION TABLE

Impedance(Ω)min.			Part No.
[10 to 100MHz]	[100 to 500MHz]	[50 to 500MHz]	
50	100	—	ZCAT1325-0530A(-BK)
40	80	—	ZCAT1730-0730A(-BK)
50	100	—	ZCAT2035-0930A(-BK)
50	100	—	ZCAT2235-1030A(-BK)
30	80	—	ZCAT2436-1330A(-BK)

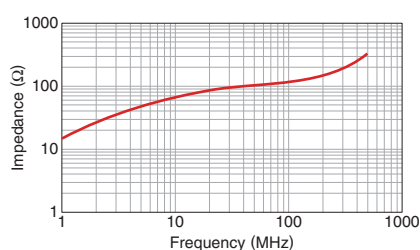
• Test conditions: When passing through an impedance meter (unloaded) ϕ 1mm copper cable

□ IMPEDANCE VS. FREQUENCY CHARACTERISTICS

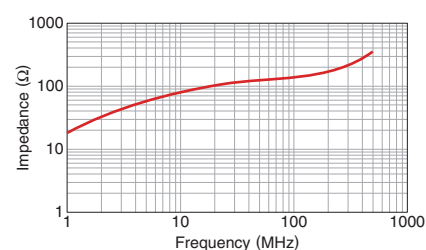
ZCAT1325-0530A



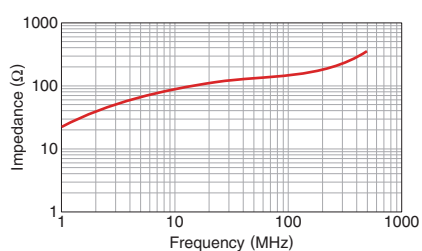
ZCAT1730-0730A



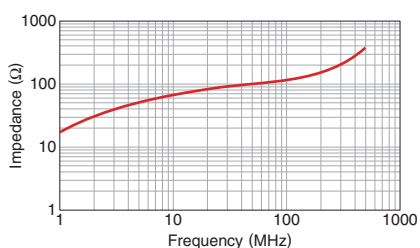
ZCAT2035-0930A



ZCAT2235-1030A



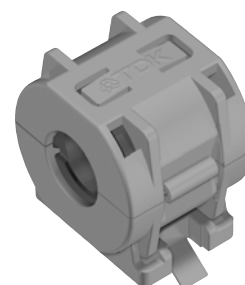
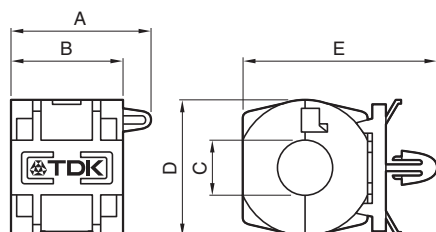
ZCAT2436-1330A



ZCAT series

ZCAT-B type

■ SHAPE & DIMENSIONS

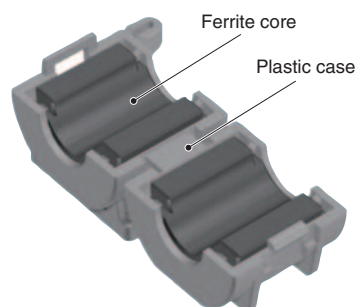


Dimensions in mm

Part No.	A	B	C	D	E	Applicable cable outer diameter
ZCAT2017-0930B(-BK)	21±1	17±1	9±1	20±1	(29)	9max.

• Chassis fixed type attachment hole: $\phi 4.8$ to 4.9mm, Plate thickness: 0.5 to 2mm

■ INTERNAL CONSTRUCTION



ZCAT series **ZCAT-B type**

■ ELECTRICAL CHARACTERISTICS

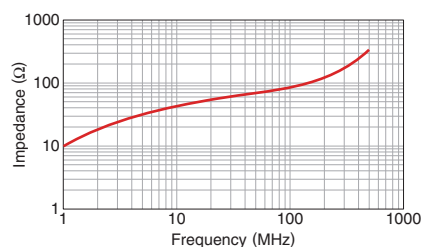
□ CHARACTERISTICS SPECIFICATION TABLE

Impedance(Ω)min.			Part No.
[10 to 100MHz]	[100 to 500MHz]	[50 to 500MHz]	
20	50	—	ZCAT2017-0930B(-BK)

• Test conditions: When passing through an impedance meter (unloaded) ϕ 1mm copper cable

□ IMPEDANCE VS. FREQUENCY CHARACTERISTICS

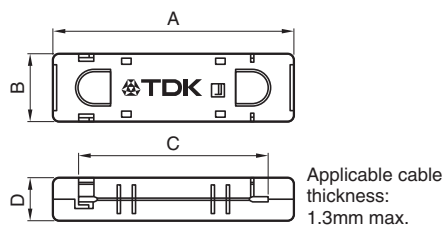
ZCAT2017-0930B



ZCAT series

ZCAT-D, ZCAT-DT type

■ SHAPE & DIMENSIONS

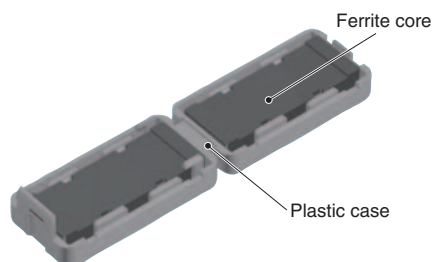


Dimensions in mm

Part No.	A	B	C	D	E	Applicable cable outer diameter
ZCAT3618-2630D(-BK)	33.5±1	17.5±1	26±1	11.5±1	—	For 20 wires flat cable
ZCAT3618-2630DT(-BK)*	33.5±1	17.5±1	26±1	12.5±1	—	For 20 wires flat cable
ZCAT4625-3430D(-BK)	45.5±1	24.5±1	34±1	12±1	—	For 26 wires flat cable
ZCAT4625-3430DT(-BK)*	45.5±1	24.5±1	34±1	13±1	—	For 26 wires flat cable
ZCAT6819-5230D(-BK)	67.5±1	18.5±1	52±1	16±1	—	For 40 wires flat cable
ZCAT6819-5230DT(-BK)*	67.5±1	18.5±1	52±1	17±1	—	For 40 wires flat cable

*Double-sided tape fixed type (tape included when shipped).

■ INTERNAL CONSTRUCTION



ZCAT series **ZCAT-D, ZCAT-DT type**

■ ELECTRICAL CHARACTERISTICS

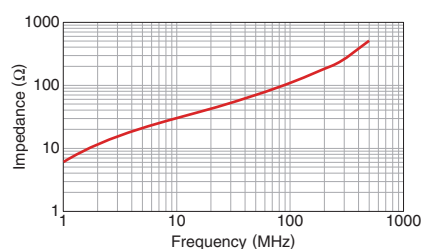
□ CHARACTERISTICS SPECIFICATION TABLE

Impedance(Ω)min.			Part No.
[10 to 100MHz]	[100 to 500MHz]	[50 to 500MHz]	
—	—	30	ZCAT3618-2630D(T)(-BK)
—	—	35	ZCAT4625-3430D(T)(-BK)
—	—	35	ZCAT6819-5230D(T)(-BK)

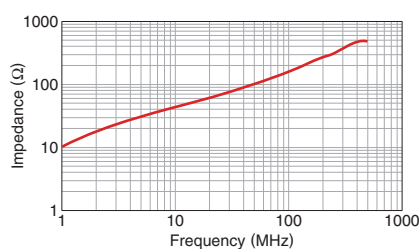
• Test conditions: When passing through an impedance meter (unloaded) ϕ 1mm copper cable

□ IMPEDANCE VS. FREQUENCY CHARACTERISTICS

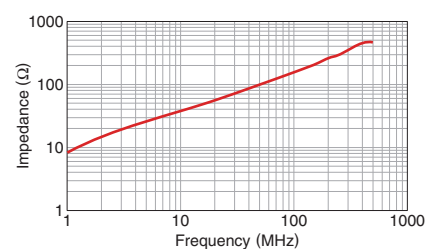
ZCAT3618-2630D



ZCAT4625-3430D



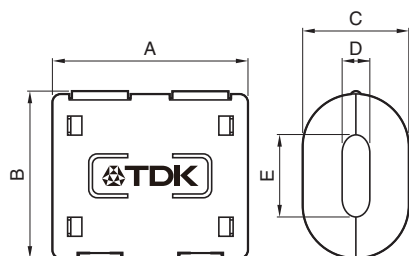
ZCAT6819-5230D



ZCAT series

ZCAT10D, 13D, 20 type

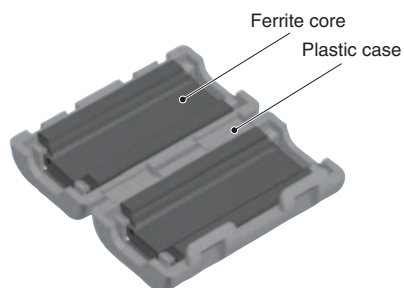
■ SHAPE & DIMENSIONS



Dimensions in mm

Part No.	A	B	C	D	E	Applicable cable outer diameter
ZCAT 10D-(BK)	27±1	14.5±1	10±1	4±1	7±1	4max.
ZCAT 13D-(BK)	34±1	20±1	13±1	5±1	8.5±1	5max.
ZCAT 20D-(BK)	35±1	30±1	20±1	5±1	15±1	5max.

■ INTERNAL CONSTRUCTION



ZCAT series ZCAT10D, 13D, 20 type

ELECTRICAL CHARACTERISTICS

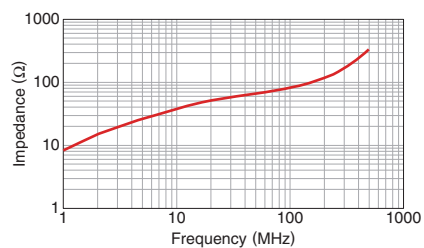
CHARACTERISTICS SPECIFICATION TABLE

Impedance(Ω)min.			Part No.
[10 to 100MHz]	[100 to 500MHz]	[50 to 500MHz]	
25	70	—	ZCAT 10D-(BK)
40	100	—	ZCAT 13D-(BK)
60	150	—	ZCAT 20D-(BK)

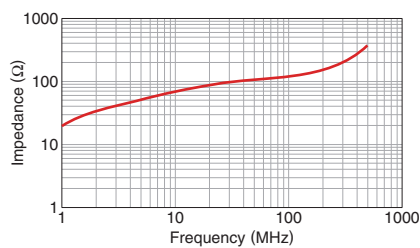
• Test conditions: When passing through an impedance meter (unloaded) ϕ 1mm copper cable

IMPEDANCE VS. FREQUENCY CHARACTERISTICS

ZCAT10D



ZCAT13D



ZCAT20D

