

DISTRIBUTION**Process Change Notice****ZCAT series Change of production location and ZCAT-DT type Change of adhesive tape**

This is to inform you that we will change production location for clamp filters ZCAT series due to optimization of production locations in TDK's all products.

In ZCAT-DT type, which is ZCAT with adhesive tape, adhesive tape is going to be changed due to discontinuation of current adhesive tape.

1. Details of the change

1-1. Change content : Change of production location

Before change	After change
EPCOS (Zhuhai) Co., Ltd.	Qingdao TDK Electronics Co., Ltd.

1-2. ZCAT-DT type (adhesive tape type) : Change of adhesive tape

Item name	Before change	After change
ZCAT3618-2630DT(-BK) ZCAT4625-3430DT(-BK) ZCAT6819-5230DT(-BK)	Manufacturer : Nitto Denko Corporation Model number : No.551	Manufacturer : Nitto Denko Corporation Model number : PF-370

1-3. The change of 4M for new location from current location

Man	Machine	Material	Method
Change	No Change	Change (ZCAT-DT type only)	No Change

※Please refer to attachment sheet for details of change.

1-4. Changed products : Please refer to the part numbers list.

2. Note

There are no changes concerning the electrical characteristics, mechanical characteristics, dimension and reliability.

3. Schedule : We will start to the change from April 2018.

Planned Date: 2018/Apr	Response Date By: 2018/Mar/30	Last Order date for current spec:Not Applicable
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Attachment : Yes

ANSWER SHEET

To TDK Corporation MAGNETICS BG	Company Department Name
Approval Date: _____ Please Check it. Implementation Yes No	Directions

Custmer part No.	TDK part name	TDK Item name after changes
ZCAT10D	ZCAT10D	ZCAT10D
ZCAT1325-0530A	ZCAT1325-0530A	ZCAT1325-0530A
ZCAT1325-0530A-BK	ZCAT1325-0530A-BK	ZCAT1325-0530A-BK
ZCAT1518-0730	ZCAT1518-0730	ZCAT1518-0730
ZCAT1518-0730-BK	ZCAT1518-0730-BK	ZCAT1518-0730-BK
ZCAT1730-0730A	ZCAT1730-0730A	ZCAT1730-0730A
ZCAT1730-0730A-BK	ZCAT1730-0730A-BK	ZCAT1730-0730A-BK
ZCAT2017-0930	ZCAT2017-0930	ZCAT2017-0930
ZCAT2017-0930B	ZCAT2017-0930B	ZCAT2017-0930B
ZCAT2017-0930B-BK	ZCAT2017-0930B-BK	ZCAT2017-0930B-BK
ZCAT2017-0930-BK	ZCAT2017-0930-BK	ZCAT2017-0930-BK
ZCAT2032-0930	ZCAT2032-0930	ZCAT2032-0930
ZCAT2032-0930-BK	ZCAT2032-0930-BK	ZCAT2032-0930-BK
ZCAT2035-0930A	ZCAT2035-0930A	ZCAT2035-0930A
ZCAT2035-0930A-BK	ZCAT2035-0930A-BK	ZCAT2035-0930A-BK
ZCAT2132-1130	ZCAT2132-1130	ZCAT2132-1130
ZCAT2132-1130-BK	ZCAT2132-1130-BK	ZCAT2132-1130-BK
ZCAT2235-1030A	ZCAT2235-1030A	ZCAT2235-1030A
ZCAT2235-1030A-BK	ZCAT2235-1030A-BK	ZCAT2235-1030A-BK
ZCAT2436-1330A	ZCAT2436-1330A	ZCAT2436-1330A
ZCAT2436-1330A-BK	ZCAT2436-1330A-BK	ZCAT2436-1330A-BK
ZCAT3035-1330	ZCAT3035-1330	ZCAT3035-1330
ZCAT3035-1330	ZCAT3035-1330	ZCAT3035-1330
ZCAT3035-1330-BK	ZCAT3035-1330-BK	ZCAT3035-1330-BK
ZCAT3618-2630D	ZCAT3618-2630D	ZCAT3618-2630D
ZCAT3618-2630DT	ZCAT3618-2630DT	ZCAT3618-2630DT
ZCAT3618-2630D-BK	ZCAT3618-2630D-BK	ZCAT3618-2630D-BK
ZCAT4625-3430D	ZCAT4625-3430D	ZCAT4625-3430D
ZCAT4625-3430DT	ZCAT4625-3430DT	ZCAT4625-3430DT
ZCAT4625-3430D-BK	ZCAT4625-3430D-BK	ZCAT4625-3430D-BK
ZCAT4625-3430D-BK	ZCAT4625-3430D-BK	ZCAT4625-3430D-BK
ZCAT6819-5230D	ZCAT6819-5230D	ZCAT6819-5230D
ZCAT6819-5230DT	ZCAT6819-5230DT	ZCAT6819-5230DT
ZCAT6819-5230D-BK	ZCAT6819-5230D-BK	ZCAT6819-5230D-BK
ZCAT08V-BK	ZCAT08V-BK	ZCAT08V-BK
ZCAT12V-BK	ZCAT12V-BK	ZCAT12V-BK
ZCAT12VN2-BK	ZCAT12VN2-BK	ZCAT12VN2-BK
ZCAT3618-2630DT-BK	ZCAT3618-2630DT-BK	ZCAT3618-2630DT-BK
ZCAT4625-3430DT-BK	ZCAT4625-3430DT-BK	ZCAT4625-3430DT-BK
ZCAT6819-5230DT-BK	ZCAT6819-5230DT-BK	ZCAT6819-5230DT-BK
ZCAT10D-BK	ZCAT10D-BK	ZCAT10D-BK
ZCAT13D-BK	ZCAT13D-BK	ZCAT13D-BK
ZCAT13D	ZCAT13D	ZCAT13D
ZCAT20D-BK	ZCAT20D-BK	ZCAT20D-BK
ZCAT20D	ZCAT20D	ZCAT20D



Clamp Filters (Ferrite Core with Case)

ZCAT series

Transfer of production location

Change of Adhesive tape

TDK Corporation
Magnetics B. Group

1. Background & products
2. Current and new production location
3. Changes (4M)
4. Schedule
5. Products list

【Appendix】

Adhesive tape comparison table for ZCAT-DT type

1 . Background and products



Background

TDK would like to transfer production location of clamp filters ZCAT series from EPCOS Zhuhai (China) to Qingdao TDK Electronics (China) for optimization of production locations in TDK group.

In ZCAT-DT type, which is ZCAT with adhesive tape, current adhesive tape has been discontinued in tape-supplier.

Then, TDK would like to change the current adhesive tape to the compatible one.

Products

- Transfer of product location

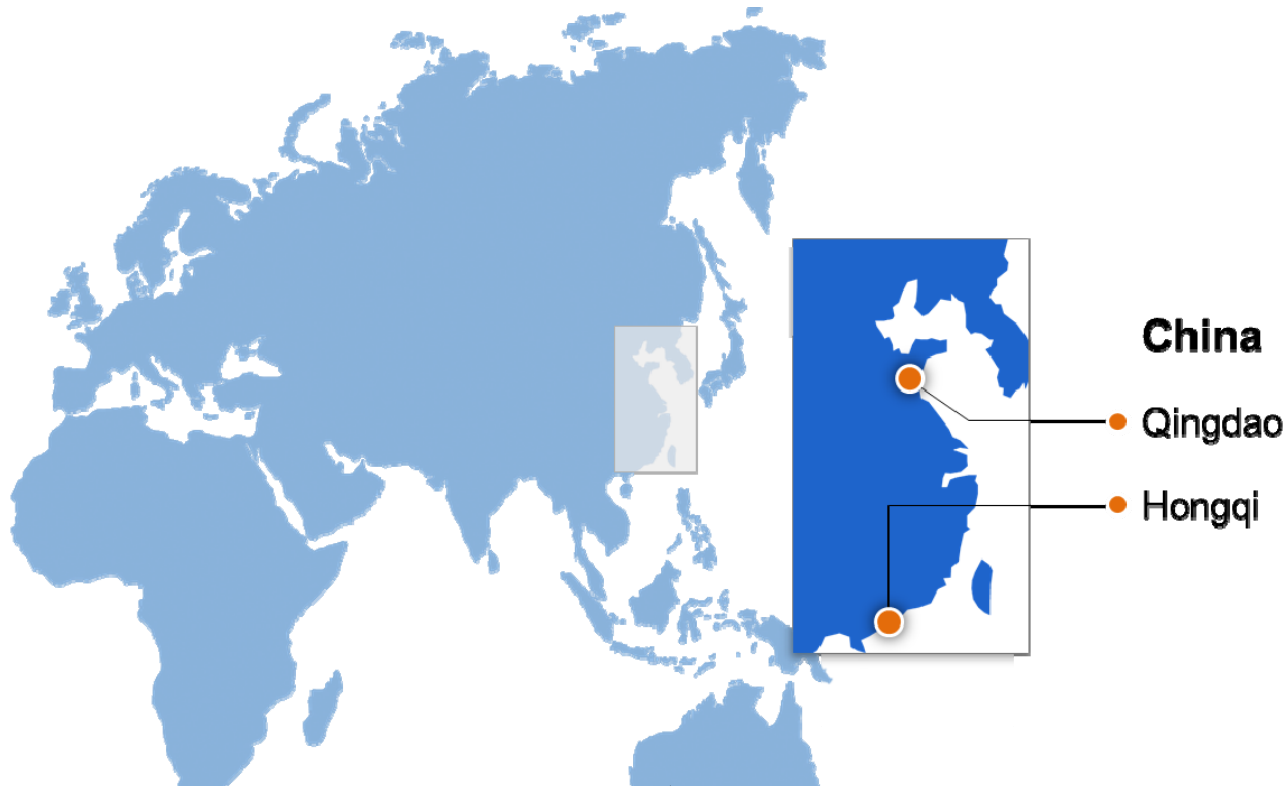
 - All items in clamp filters ZCAT series

- Change of adhesive tape

 - Only ZCAT-DT type (ZCAT with adhesive tape) in ZCAT series

 - (Please refer to term 5 in details.)

2. Current and new production location



Current	After transfer
EPCOS (Zhuhai) Co., Ltd. North Honghui 2nd Road, Industrial Zone, Hongqi Town, Jinwan District, Zhuhai City Guangdong Province	Qingdao TDK Electronics Co., Ltd. No.16 Tonghe Rd, Pingdu City, Qingdao

3. Changes (4M)



Products	Change items	Before change	After change	Material	Machine	Method	Man
ZCAT series (Excluded ZCAT-DT type)	Production location	EPCOS Zhuhai	Qingdao TDK	No Changes	No Changes	No Changes	Changes
ZCAT-DT type	Adhesive tape	No.551 Nitto Denko	PF-370 Nitto Denko	Changes (Adhesive tape)	No Changes	No Changes	Changes
	Production location	EPCOS Zhuhai	Qingdao TDK				

<Remarks>

- 1 We will make sure that product has same quality with current product by performing process capability investigation and reliability test.
- 2 There are no changes in equipment and tool.
- 3 There are no changes in material manufacturer and quality control method.
- 4 Operation training and education program for new operator will be done.
- 5 No Electrical and Mechanical characteristics change.

4. Schedule



		2018											
		1	2	3	4	5	6	7	8	9	10	11	12
ZCAT series Transfer of production location	Notification of production change	●											
	Sample ^{*1}			→									
	MP ^{*2}	1st group				→							
		2nd group						→					
		3rd group								→			
ZCAT-DT type Change of adhesive tape	Notification of production change	●											
	Sample ^{*3}		→										
	MP ^{*4}						→						

- * 1 : Sample will be available after March 2018. "ZCAT1518-0730" will be the representative item as sample.
- * 2 : Transfer of production lines will be done in 3 steps. (Please refer to next page regarding to products for each step.)
- * 3 : Sample applying alternate adhesive tape be available after January 2018. However, this is a sample manufactured at the conventional factory. Samples of production factory change will be available after May 2018.
- * 4 : After using the stock of the conventional adhesive tape, we will change it to the alternate adhesive tape.

5. Products list



Type	Part No.	Step
ZCAT	ZCAT1518-0730 (-BK)	1st
	ZCAT2017-0930 (-BK)	3rd
	ZCAT2032-0930 (-BK)	3rd
	ZCAT2132-1130 (-BK)	3rd
	ZCAT3035-1330 (-BK)	3rd
ZCAT	ZCAT1325-0530A (-BK)	2nd
	ZCAT1730-0730A (-BK)	2nd
	ZCAT2035-0930A (-BK)	3rd
	ZCAT2235-1030A (-BK)	3rd
	ZCAT2436-1330A (-BK)	3rd
ZCAT-B	ZCAT2017-0930B (-BK)	3rd
ZCAT-D	ZCAT3618-2630D (-BK)	2nd
	ZCAT4625-3430D (-BK)	2nd
	ZCAT6819-5230D (-BK)	2nd
ZCAT-DT (With adhesive tape)	ZCAT3618-2630DT (-BK)	2nd
	ZCAT4625-3430DT (-BK)	2nd
	ZCAT6819-5230DT (-BK)	2nd
ZCAT**D	ZCAT10D (-BK)	2nd
	ZCAT13D (-BK)	2nd
	ZCAT20D (-BK)	2nd

Type	Part No.	Step
Others	ZCAT2132-1130PT	3rd
	ZCAT3035-1330PT (-BK)	3rd
	ZCAT2035-0930A-SNBK	3rd
	ZCAT1518-0730-BK-NB	1st
	ZCAT1518-0730-NB	1st
	ZCAT2017-0930-NB	3rd
	ZCAT2032-0930-NB	3rd
	ZCAT2132-1130-BK-NB	3rd
	ZCAT2132-1130-NB	3rd
	ZCAT2132-1130PT	3rd
	ZCAT3035-1330-BK-NB	3rd
	ZCAT3035-1330PT	3rd
	ZCAT3035-1330PT-BK	3rd

- Step=1 : Scheduled for mass production shipment from April 2018
- Step=2 : Scheduled for mass production shipment from July 2018
- Step=3 : Scheduled for mass production shipment from September 2018

【Appendix】

Adhesive tape comparison table for ZCAT-DT type



New adhesive tape, PF-370, has better characteristics than that of current one.

Items	Adhesive tape before change		Adhesive tape after change	
Model number	No.551		PF-370	
Manufacturer	Nitto Denko Corporation		Nitto Denko Corporation	
Tape thickness (mm)	1.1±0.4		1.2±0.2	
Adhesive	Acrylic adhesive		Acrylic adhesive	
Tape color	White		White	
Appearance of separator	Dark yellow solid color 		Blue grid pattern in white solid color 	
90 degree peeling adhesion (N/20mm)	SUS	10.6	SUS	13.1
	Acrylic	9.6	Acrylic	14.4
	PP	4.6	PP	9.0

Product

Type	Part No.	Scheduled for mass production shipment
ZCAT-DT (With adhesive tape)	ZCAT3618-2630DT (-BK)	July 2018
	ZCAT4625-3430DT (-BK)	
	ZCAT6819-5230DT (-BK)	

