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/ 注意事项

■本产品目录中记载的内容是至2013年10月的内容。本产品目录记载的内容由于产品的改良等原因发生变更时,恕不另行通知。在您定购我司产品之前请确认最新的产品信息。

当您计划在本产品目录记载内容,或是《交货规格书》的规定范围以外使用我司产品时,由于使用我司产品引起的该应用设备的瑕疵我司将不承担任何责任。

- 有关详细的产品规格我们准备有《交货规格书》,请向我司咨询相关事宜。
- 在您使用我司产品时,请务必进行应用设备实装状态以及应用产品实际使用环境下的测评。
- 本产品目录中记载的电子元器件, 电路产品等产品适用于一般电子设备。

『AV设备, OA设备, 家电及办公设备, 信息/通讯设备(手机, 电脑等)』

当您计划把本产品目录中记载的产品使用于可能会危及第三方生命安全的应用设备时,请务必提前与我公司取得联系,针对产品信息加以确认。

【运输用设备(火车控制设备,船舶控制设备等),交通用信号设备,防灾设备,医疗用设备,公共性高的信息通信设备等(电话程控交换机,电话,无线电,电视信号等基地局)】

另外,请不要在要求高度安全性,可靠性的应用设备上使用本产品目录中记载的产品。【航天设备,航空设备,核控制设备,用于海底的设备,军事设备等】

同时,应用于安全性,可靠性要求较高的一般电子设备/电路时,请充分进行安全性测评,必要时请在设计过程中追加 保护电路。

- ■本产品目录中所记载的内容适用于通过我司营业所,销售子公司,销售代理店 (即正规销售渠道)购买的我司产品。通过其他渠道购买的我司产品不在适用范围之内。
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■有关出口的注意事项

本产品目录中记载的产品中,部分产品在出口时会被归为"外汇及外贸管理法,美国出口管理法规"的管制货物,请及时 实施相关手续,依据相关法律法规进行出口。需确认时,可向我司咨询。

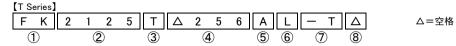
多层片状EMI抑制滤波器



回流焊

■型号标示法

※使用温度范围:-25~+85℃



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代码	类型
FK	多层片状 EMI 抑制滤波器

②尺寸(L×W)

代码	外型(inch)	尺寸(L×W)[mm]
2125	2125(0805)	2.0 × 1.25

③等价电路

© 3 1/1 · B#4						
代码	等价电路					
Т	T 刑					

4)截止频率

色似工 频率						
代码(例)	截止频率					
△186	18 MHz					
△256	25 MHz					

⑤衰减特性

代码(例)	衰减特性
Α	陡峭的衰减特性

⑥额定电压

- 2	© KAC-15/2					
	代码	额定电压[V]				
	L	10				

(7)包装

<u> </u>							
代码	包装						
-T	卷盘带装						

8本公司管理记号

②本公司官理に写						
代码	本公司管理记号					
Δ	标准品					

【TZ Series】

17	Series	• 4														
F	K	2	1	2	5	Т	Z	2	0	1	С	8	5	0	Т	Δ
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①类型

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代码	类型
FK	多层片状 EMI 抑制滤波器

②尺寸(L×W)

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③等价电路

代码	等价电路
Т	T型

4分标称阻抗值

⊕ 13 13 1 —3301	
代码	标称阻抗值[100MHz]
Z700	70 Ω
Z101	100Ω
Z201	200 Ω

5 标称静由容量

②你你好电台里							
代码	标称静电容量[1MHz]						
C170	17pF						
C500	50pF						
C850	85nF						

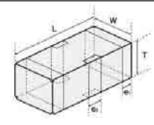
⑥包装

9 2 %						
代码	包装					
Т	卷盘带装					

⑦本公司管理记号

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代码	本公司管理记号
Δ	标准品

■标准外型尺寸/标准数量



L	W	Т	e ¹	e ²	标准数量[pcs] 压纹带
2.0±0.2 (0.079±0.008)	1.25±0.2 (0.049±0.008)	1.0±0.2 (0.039±0.008)	0.3±0.2 (0.012±0.008)	0.4±0.2 (0.016±0.008)	3000

单位:mm(inch)

[▶]本产品目录根据版面大小,仅记载了代表性产品规格,若考虑使用本公司产品时,请确认供货规格型号明细表中的详细规格。 有关各商品的详细信息(特性图、可靠性信息、使用时的注意事项等),请参阅本公司网站(http://www.ty-top.com/)。

●T系列

		盐山瓜安		衰减特性							直流电阻	额定电压	额定电流	绝缘阻抗
型号	EHS	截止频率 「MHz]	插入损耗	面入损耗							且流电阻 [Ω](max.)			經緣阻抗 [MΩ]
		[WII IZ]	[1MHz]	50MHz	100MHz	200MHz	350MHz	500MHz	600MHz	800MHz	[32] (IIIax.)	[V](DC)	[mA] (DC)	FIAI 25]
FK2125T 186AL-T	RoHS	18±3.6	≦1.0dB	≧20dB	≧20dB	-	-	≧20dB	-	-	2	10	100	≧30
FK2125T 256AL-T	RoHS	25±5	≦1.0dB	≧15dB	≧20dB	-	-	≧20dB	-	-	2	10	100	≧30
FK2125T 406AL-T	RoHS	40±10	≦1.0dB	-	≧15dB	≧20dB	ı	≧20dB	-	-	2	10	100	≧30
FK2125T 107AL-T	RoHS	100±20	≦1.0dB	-	-	≧20dB	ı	≧20dB	-	-	3	10	100	≧30
FK2125T 167AL-T	RoHS	160±30	≦1.0dB	-	-	-	≧20dB	≧20dB	-	-	2	10	100	≧30
FK2125T 207AL-T	RoHS	200±40	≦1.0dB	-	-	-	≧20dB	≧20dB	-	-	2	10	100	≧30
FK2125T 407AL-T	RoHS	400±80	≦1.0dB	-	-	-	-	-	≧20dB	≧20dB	2	10	100	≧30

●TZ系列

型号	EHS	阻 抗(端子1-3) [100MHz]	静电容量(端子1-2) [1MHz]	直流电阻 [Ω](max.)	额定电压 [V](DC)	额定电流 [mA](DC)	绝缘阻抗 [MΩ]
FK2125TZ700C170T	RoHS	70Ω±30%	17pF±20%	2	10	100	≧30
FK2125TZ700C500T	RoHS	$70 \Omega \pm 30\%$	50pF±20%	2	10	100	≧30
FK2125TZ700C850T	RoHS	$70 \Omega \pm 30\%$	85pF±20%	2	10	100	≧30
FK2125TZ101C170T	RoHS	100Ω±30%	17pF±20%	2	10	100	≧30
FK2125TZ101C500T	RoHS	100Ω±30%	50pF±20%	2	10	100	≧30
FK2125TZ101C850T	R ₀ HS	100Ω±30%	85pF±20%	2	10	100	≧30
FK2125TZ201C850T	RoHS	200 Ω ±30%	85pF±20%	2	10	100	≧30

MULTILAYER EMI SUPPRESSION FILTERS

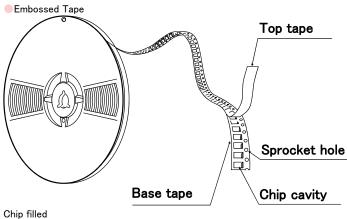
PACKAGING

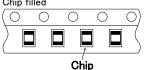
1 Minimum Quantity

Taped package

Tura	Thickness	Standard Quantity [pcs]
Туре	mm(inch)	Embossed tape
FK 2125(0805)	1.0(0.039)	3000

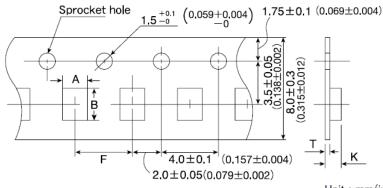
②Tape material





3Taping dimensions

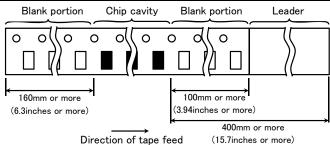
Embossed tape 8mm wide



Unit: mm(inch)

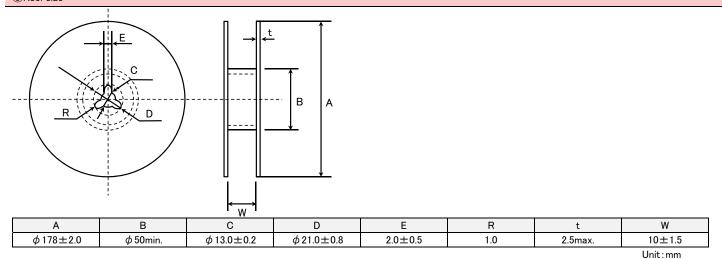
Type	Chip	cavity	Insertion pitch	Tape thickness		
Туре	Α	В	F	K	Т	
FK 2125(0805)	1.5±0.2 (0.059±0.008)	2.3 ± 0.2 (0.091±0.008)	4.0±0.1 (0.157±0.004)	2.0 max. (0.079 max.)	0.3 max. (0.012 max.)	
					Unit : mm(inch)	

4 Leader and Blank portion



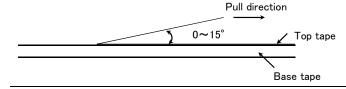
This catalog contains the typical specification only due to the limitation of space. When you consider the purchase of our products, please check our specification. For details of each product (characteristics graph, reliability information, precautions for use, and so on), see our Web site (http://www.ty-top.com/).

⑤Reel size



$\ensuremath{\text{\textcircled{6}}}$ Top tape strength

The top tape requires a peel;-off force of $0.1 \sim 0.7 N$ in the direction of the arrow as illustrated below.



MULTILAYER EMI SUPPRESSION FILTERS

■RELIABILITY DATA

1. Operating Temperature Range

2. Storage Temperature Range

3. Rated Voltage

Specified Value 10V DC

4. Rated Current

Specified Value 100mA DC

5. Cutoff frequency (T Series)

Specified Value 18MHz±3.6MHz, 25MHz±5MHz, 40MHz±10MHz, 100MHz±20MHz, 160MHz±30MHz, 200MHz±40MHz, 400MHz±80MHz

Test Methods and Remarks

Measuring equipment : 8753D (or its equivalent)
Measuring source : 0dBm

: -20dBm

 $\begin{array}{lll} \mbox{Measuring source} & : \mbox{OdBm} \\ \mbox{Input-Output impedance} & : \mbox{50} \, \Omega \end{array}$

6. Impedance (TZ Series)

Specified Value $70 \Omega \pm 30\%, 100 \Omega \pm 30\%, 200 \Omega \pm 30\%$ Measuring frequency : 100MHz

Test Methods and Remarks Measuring equipment : 4291A (or its equivalent)

Measuring jig : 16192A

Measuring source

7. Capacitance (TZ Series)

Specified Value 17pF±20%, 50pF±20%, 85pF±20%

Measuring equipment : 4194A (or its equivalent)

Test Methods and Remarks Measuring frequency : 1MHz

Capacitance measurement between Terminals 1 and 2.

8. DC Resistance

Specified Value 2Ω max., 3Ω max. (FK2125T107AL)

Test Methods and Remarks

Conduct measurement between Terminals 1 and 3.

9. Insulation Resistance

 Specified Value
 30M Ω min.

 Test Methods and Remarks
 Conduct measurement between Terminals 1 and 2.

 Applied voltage : 10VDC

10. Resistance to Flexure of Substrate

Specified Value

No mechanical damage.

Warp : 2mm
 Testing board : glass epoxy-resin substrate
 Thickness : 0.8mm

Test Methods and Remarks

Remarks

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11. Solderability	11. Solderability							
Specified Value	At least 75% of terminal ele	ectrode is covered by new solder.						
Test Methods and Remarks	Solder temperature Duration Preheating temperature Preheating time	: 230±5°C : 4±1 sec. : 150 to 180°C : 2 to 3 min.						
	Flux	: Immersion into methanol solution with colophony for 3 to 5 sec.						

12. Resistance to S	12. Resistance to Soldering								
Specified Value	No significant abnormality	in appearance.							
Test Methods and Remarks	Solder temperature Duration Preheating temperature Preheating time	: 260±5°C : 10±0.5 sec. : 150 to 180°C : 2 to 3 min.							
	Flux	: Immersion into methanol solution with colophony for 3 to 5 sec.							

13. Thermal Shock

No mechanical damage.

: 20M Ω min. Insulation resistance (between 1 and 2) Specified Value : 2Ω max. DC resistance (between 1 and 3)

: 3Ω max. (FK2125T107AL)

Conditions for 1 cycle

Test Methods and Remarks

Specified Value

Step	Temperature (°C)	Duration (min)
1	Minimum operating temperature $+0/-3$	30±3
2	Room temperature	2 to 3
3	Maximum operating temperature $+3/-0$	30±3
4	Room temperature	2 to 3

Number of cycles

Recovery : 2 to 3 hrs of recovery under the standard condition after the test.

14. Damp Heat steady state

No mechanical damage.

Insulation resistance (between 1 and 2) : 20M Ω min. DC resistance (between 1 and 3) : 2Ω max.

: 3Ω max. (FK2125T107AL)

: 40±2°C Temperature Test Methods and Humidity : 90 to 95%RH Remarks

Duration $:500\pm12 \text{ hrs}$

: 2 to 3 hrs of recovery under the standard condition after the removal from test chamber. Recovery

15. Loading under Damp Heat

No mechanical damage. : 20M Ω min. Insulation resistance (between 1 and 2) Specified Value DC resistance (between 1 and 3) $: 2\,\Omega \ \text{max}.$

: 3Ω max. (FK2125T107AL)

Temperature $: 40 \pm 2^{\circ}C$: 90 to 95%RH Humidity Test Methods and Applied voltage

Remarks Applied current

: Rated voltage (between 1 and 2) : Rated current (between 1 and 3)

Duration $:500\pm12 \text{ hrs}$

: 2 to 3 hrs of recovery under the standard condition after the removal from test chamber. Recovery

16. Loading at High Temperature

No mechanical damage. : 20M Ω min. Insulation resistance (between 1 and 2) Specified Value DC resistance (between 1 and 3) : 2Ω max.

: 3Ω max. (FK2125T107AL)

Test Methods and Remarks

Temperature

Applied voltage : Rated voltage (between 1 and 2) Applied current : Rated current (between 1 and 3)

Duration $:500\pm12 \text{ hrs}$

Recovery : 2 to 3 hrs of recovery under the standard condition after the removal from test chamber.

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Note on standard condition:

"standard condition" referred to herein is defined as follows:

5 to 35°C of temperature, 45 to 85% relative humidity and 86 to 106kPa of air pressure.

When there are questions concerning measurement results:

In order to provide correlation data, the test shall be conducted under condition of $20\pm2^{\circ}C$ of temperature, 60 to 70% relative humidity and 86 to 106kPa of air pressure.

Unless otherwise specified, all the tests are conducted under the "standard condition."

☆Circuit diagram

