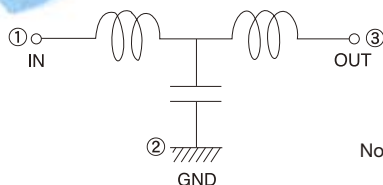


# 積層チップEMI除去フィルタ

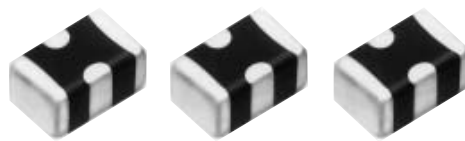
## MULTILAYER EMI SUPPRESSION FILTER

OPERATING TEMP. -25~+85°C

等価回路  
Equivalent circuit



No direction



リフロー/REFLOW

### 特長 FEATURES

- ・積層コンデンサ、積層インダクタを一体化した2×1.25mmサイズのEMIフィルタです
- ・急峻な減衰特性の T シリーズ と デジタル信号の波形品位維持に効果的な TZ シリーズ をラインナップ
- ・積層コンデンサ等と同一形状で、自動機による高速実装に最適です

- ・2×1.25mm size EMI filter unifying multilayer capacitor and inductor T series with rapid attenuation characteristics and TZ series with effective maintaining of waveform quality of digital signal are lined up.
- ・Same shape as multilayer capacitor which is suitable for high speed mounting by automatic machine.

### 用途 APPLICATIONS

- ・DVD、DSC、PDP等の映像信号に於けるノイズ対策 (T シリーズ)
- ・パソコン、情報機器等、デジタル信号処理回路でのノイズ対策と波形品位維持 (TZ シリーズ)

- ・Noise countermeasure in visual signal such as DVD, DSC, PDP, etc. (T series)
- ・Noise countermeasure and maintaining waveform quality in digital signal processing circuit in personal computer, communication equipment, etc. (TZ series)

### 形名表記法 ORDERING CODE

#### ■ T Series

|                               |                   |   |                        |   |       |   |                            |   |               |   |          |   |            |   |          |
|-------------------------------|-------------------|---|------------------------|---|-------|---|----------------------------|---|---------------|---|----------|---|------------|---|----------|
| 1                             | 形式                | 2 | 形状寸法 (L × W) [mm]      | 3 | 等価回路  | 4 | カットオフ周波数                   | 5 | 減衰特性          | 6 | 定格電圧 [V] | 7 | 包装         | 8 | 当社管理番号   |
|                               | FK 積層チップEMI除去フィルタ |   | 2125 (0805) 2.0 × 1.25 |   | T T 型 |   | 例 186 18 MHz<br>256 25 MHz |   | 例 A シャープな減衰特性 |   | L 10     |   | △ リールテーピング |   | 標準品      |
|                               |                   |   |                        |   |       |   |                            |   |               |   |          |   |            |   | △ = スペース |
| F K 2 1 2 5 T 2 5 6 A L - T ○ |                   |   |                        |   |       |   |                            |   |               |   |          |   |            |   |          |
| 1 2 3 4 5 6 7 8               |                   |   |                        |   |       |   |                            |   |               |   |          |   |            |   |          |

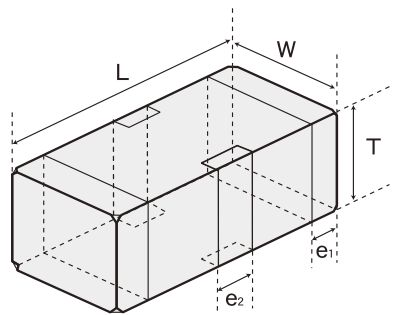
| 1                                                      | 3                               | 4                                                    | 5                                 | 7                                                       |
|--------------------------------------------------------|---------------------------------|------------------------------------------------------|-----------------------------------|---------------------------------------------------------|
| Type<br>FK Multilayer EMI Suppression Filter           | Equivalence circuit<br>T T type | Cutoff frequency<br>example 186 18 MHz<br>256 25 MHz | Characteristic<br>example A Sharp | Packaging<br>-T Tape&Reel                               |
| 2                                                      |                                 |                                                      | 6                                 | 8                                                       |
| External dimensions (L×W) [mm]<br>2125 (0805) 2.0×1.25 |                                 |                                                      | Rated voltage [V]<br>L 10         | Internal code<br>△ Standard products<br>△ = Blank space |

#### ■ TZ Series

|                                   |                     |                                 |                                  |                |   |   |
|-----------------------------------|---------------------|---------------------------------|----------------------------------|----------------|---|---|
| 1                                 | 2                   | 4                               | 5                                | 6              |   |   |
| 形式                                | 形状寸法 (L×W) [mm]     | 公称インピーダンス [100MHz]              | 公称静電容量 [1MHz]                    | 包装             |   |   |
| FK積層チップEMI除去フィルタ                  | 2125 (0805)2.0×1.25 | Z70070Ω<br>Z101100Ω<br>Z201200Ω | C17017pF<br>C50050pF<br>C85085pF | Tリールテーピング      |   |   |
|                                   | 3                   |                                 |                                  | 7              |   |   |
|                                   | 等価回路                |                                 |                                  | 当社管理番号         |   |   |
|                                   | T T型                |                                 |                                  | △標準品<br>△=スペース |   |   |
| F K 2 1 2 5 T Z 2 0 1 C 8 5 0 T ○ |                     |                                 |                                  |                |   |   |
| 1                                 | 2                   | 3                               | 4                                | 5              | 6 | 7 |

| 1                                            | 2                                                      | 4                                                                | 5                                                                 | 6                                                       |
|----------------------------------------------|--------------------------------------------------------|------------------------------------------------------------------|-------------------------------------------------------------------|---------------------------------------------------------|
| Type<br>FK Multilayer EMI Suppression Filter | External dimensions (L×W) [mm]<br>2125 (0805) 2.0×1.25 | Nominal Impedance [100MHz]<br>Z700 70Ω<br>Z101 100Ω<br>Z201 200Ω | Nominal Capacitance [1MHz]<br>C170 17pF<br>C500 50pF<br>C850 85pF | Packaging<br>T Tape&Reel                                |
|                                              | 3                                                      |                                                                  |                                                                   | 7                                                       |
|                                              | Equivalence circuit<br>T T type                        |                                                                  |                                                                   | Internal code<br>△ Standard products<br>△ = Blank space |

## 外形寸法 EXTERNAL DIMENSIONS

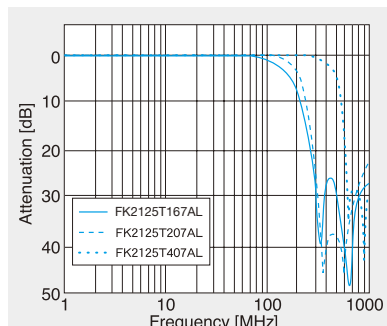
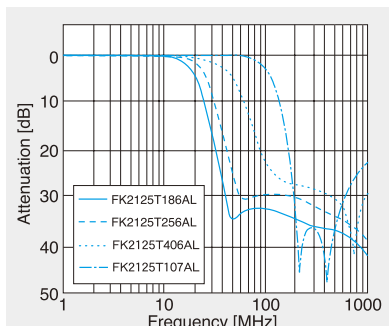


| L                        | W                         | T                        | e <sup>1</sup>           | e <sup>2</sup>           |
|--------------------------|---------------------------|--------------------------|--------------------------|--------------------------|
| 2.0±0.2<br>(0.079±0.008) | 1.25±0.2<br>(0.049±0.008) | 1.0±0.2<br>(0.039±0.008) | 0.3±0.2<br>(0.012±0.008) | 0.4±0.2<br>(0.016±0.008) |

Unit : mm (inch)

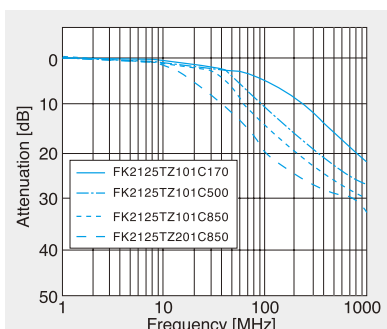
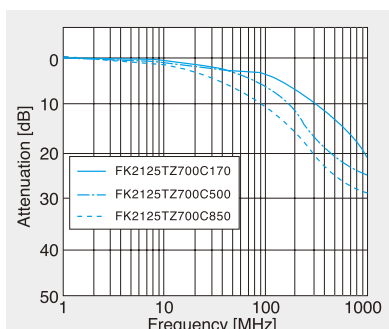
## 特性図 ELECTRICAL CHARACTERISTICS

### ●Tシリーズ



| 形 名<br>Ordering code | EHS<br>(Environmental<br>Hazardous<br>Substances) | カットオフ周波数<br>Cut-Off<br>Frequency | 減衰特性                             |                    |          |          |          |          |          |          | 直流抵抗<br>DC<br>resistance<br>max. | 定格電圧<br>Rated<br>voltage | 定格電流<br>Rated<br>current | 絶縁抵抗<br>Insulation<br>resistance |
|----------------------|---------------------------------------------------|----------------------------------|----------------------------------|--------------------|----------|----------|----------|----------|----------|----------|----------------------------------|--------------------------|--------------------------|----------------------------------|
|                      |                                                   |                                  | 挿入損失<br>insertion-loss<br>[1MHz] | 減衰量<br>attenuation |          |          |          |          |          |          |                                  |                          |                          |                                  |
|                      |                                                   |                                  |                                  | [50MHz]            | [100MHz] | [200MHz] | [350MHz] | [500MHz] | [600MHz] | [800MHz] |                                  |                          |                          |                                  |
| FK2125T186AL         | RoHS                                              | 18MHz±3.6MHz                     | ≦1.0dB                           | ≧20dB              | ≧20dB    | —        | —        | ≧20dB    | —        | —        | 2Ω                               | 10V DC                   | 100mA DC                 | ≧30MΩ                            |
| FK2125T256AL         | RoHS                                              | 25MHz±5MHz                       |                                  | ≧15dB              | ≧20dB    | —        | —        | ≧20dB    | —        | —        |                                  |                          |                          |                                  |
| FK2125T406AL         | RoHS                                              | 40MHz±10MHz                      |                                  | —                  | ≧15dB    | ≧20dB    | —        | ≧20dB    | —        | —        | 3Ω                               |                          |                          |                                  |
| FK2125T107AL         | RoHS                                              | 100MHz±20MHz                     |                                  | —                  | —        | ≧20dB    | —        | ≧20dB    | —        | —        |                                  |                          |                          |                                  |
| FK2125T167AL         | RoHS                                              | 160MHz±30MHz                     |                                  | —                  | —        | —        | ≧20dB    | ≧20dB    | —        | —        | 2Ω                               |                          |                          |                                  |
| FK2125T207AL         | RoHS                                              | 200MHz±40MHz                     |                                  | —                  | —        | —        | ≧20dB    | ≧20dB    | —        | —        |                                  |                          |                          |                                  |
| FK2125T407AL         | RoHS                                              | 400MHz±80MHz                     |                                  | —                  | —        | —        | —        | —        | ≧20dB    | ≧20dB    |                                  |                          |                          |                                  |

### ●TZシリーズ



| 形名<br>Ordering code | EHS<br>(Environmental<br>Hazardous<br>Substances) | インピーダンス<br>(端子1-3)<br>impedance<br>[100MHz] | 静電容量<br>(端子1-2)<br>capacitance<br>[1MHz] | 直流抵抗<br>DC resistance<br>max. | 定格電圧<br>Rated volt-<br>age | 定格電流<br>Rated cur-<br>rent | 絶縁抵抗<br>Insulation<br>resistance |
|---------------------|---------------------------------------------------|---------------------------------------------|------------------------------------------|-------------------------------|----------------------------|----------------------------|----------------------------------|
| FK2125TZ700C170     | RoHS                                              | 70Ω±30%                                     | 17pF±20%                                 | 2Ω                            | 10V DC                     | 100mA DC                   | ≧30MΩ                            |
| FK2125TZ700C500     | RoHS                                              | 70Ω±30%                                     | 50pF±20%                                 |                               |                            |                            |                                  |
| FK2125TZ700C850     | RoHS                                              | 70Ω±30%                                     | 85pF±20%                                 |                               |                            |                            |                                  |
| FK2125TZ101C170     | RoHS                                              | 100Ω±30%                                    | 17pF±20%                                 |                               |                            |                            |                                  |
| FK2125TZ101C500     | RoHS                                              | 100Ω±30%                                    | 50pF±20%                                 |                               |                            |                            |                                  |
| FK2125TZ101C850     | RoHS                                              | 100Ω±30%                                    | 85pF±20%                                 |                               |                            |                            |                                  |
| FK2125TZ201C850     | RoHS                                              | 200Ω±30%                                    | 85pF±20%                                 |                               |                            |                            |                                  |

セクションガイド  
Selection Guide

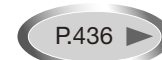
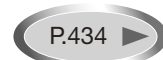
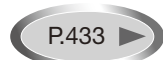
アイテム一覧  
Part Numbers

特性図  
Electrical Characteristics

梱包  
Packaging

信頼性  
Reliability Data

使用上の注意  
Precautions



etc

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