

# 薄膜双工器

## W-LAN用

### TFSD系列

Type:           TFSD10055950-5001C1  
                  TFSD10055950-5102A2

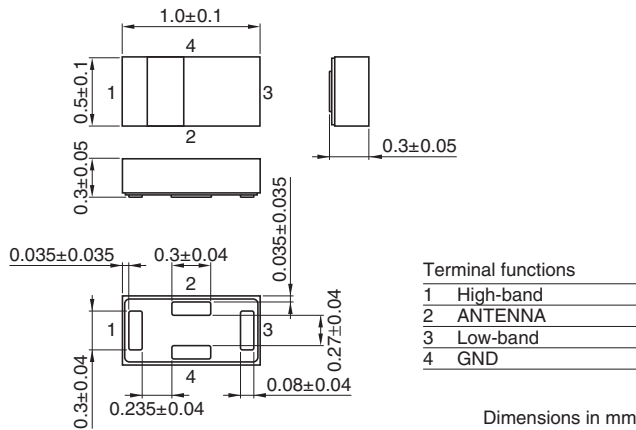
Issue date:     February 2013

# 薄膜双工器 W-LAN用

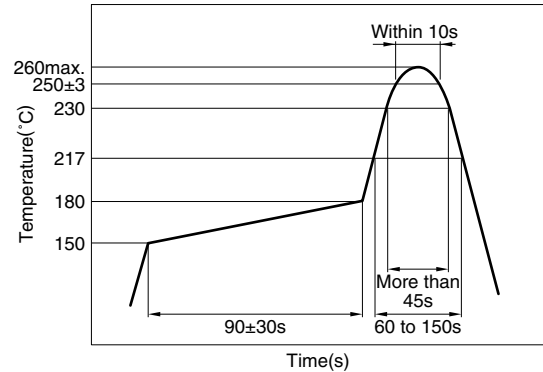
RoHS指令对应产品

TFSD系列 TFSD10055950-5001C1

## 形状·尺寸

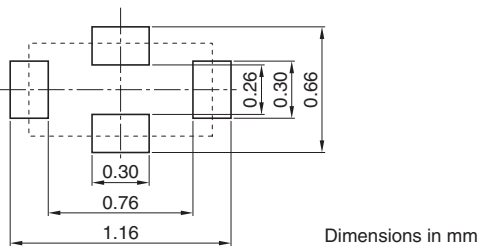


## 推荐回流焊接条件



\* In this product, the recommended soldering condition is 'reflow'.  
Reflow Soldering : Maximum 2 times

## 推荐印刷电路板图样



The recommended distance to the PCB ground plane is 0.2mm.  
Line width be designed to match 50Ω characteristic impedance depending on PCB Material and thickness.

## 电气特性

| 项目   | 端口              | 频率范围            | 最小值     | 代表值  | 最大值  |
|------|-----------------|-----------------|---------|------|------|
| 插入损耗 | 低频带             | 2400 to 2500MHz | (dB) —  | 0.43 | 0.5  |
|      | 高频带             | 4900 to 5950MHz | (dB) —  | 0.49 | 0.65 |
| 回波损耗 | ANT             | 2400 to 2500MHz | (dB) 10 | 19.5 | —    |
|      | ANT             | 4900 to 5950MHz | (dB) 10 | 20.4 | —    |
| 衰减量  | 低频带             | 2400 to 2500MHz | (dB) 10 | 21.4 | —    |
|      | 高频带             | 4900 to 5950MHz | (dB) 10 | 22.5 | —    |
|      | 低频带             | 4800 to 5000MHz | (dB) 20 | 23.1 | —    |
|      | 高频带             | 7200 to 7500MHz | (dB) 20 | 29.2 | —    |
|      | 高频带             | 824 to 915MHz   | (dB) 20 | 25.6 | —    |
| 绝缘   | DC to 2500MHz   | (dB) 20         | 23.4    | —    | —    |
|      | 4900 to 5950MHz | (dB) 20         | 23.9    | —    | —    |
|      | 工作时             | (°C) -40        | —       | —    | +85  |
| 温度范围 | 保存时             | (°C) -40        | —       | —    | +85  |

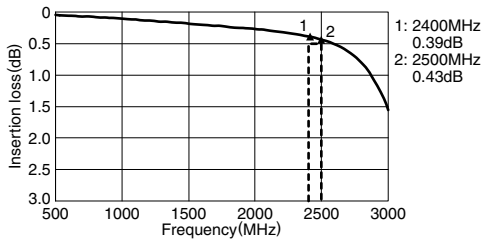
• Ta: +25°C

● RoHS 指令的对应: 表示除了依据 EU Directive 2002/95/EC 免除的用途之外, 未使用铅, 镉, 汞, 六价铬及特定溴系难燃剂 PBB, PBDE 等。

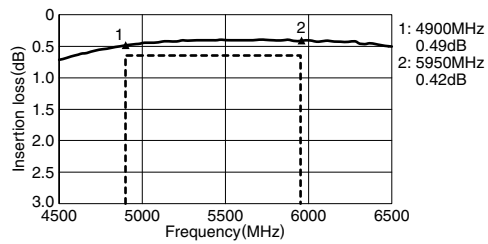
· 记载内容, 在没有予告的情况下有可能改进和变更, 请予以谅解。

### 频率特性

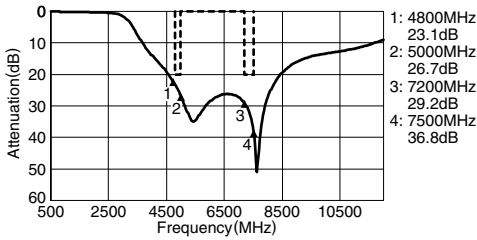
#### Low-BAND PORT INSERTION LOSS



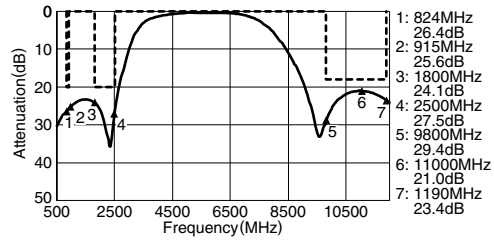
#### High-BAND PORT INSERTION LOSS



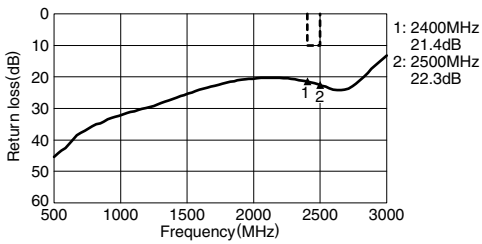
#### Low-BAND PORT ATTENUATION



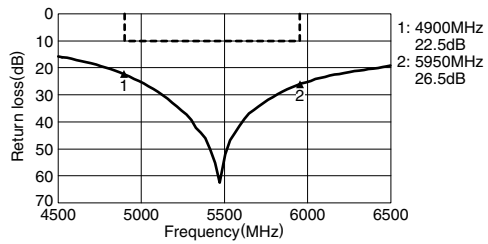
#### High-BAND PORT ATTENUATION



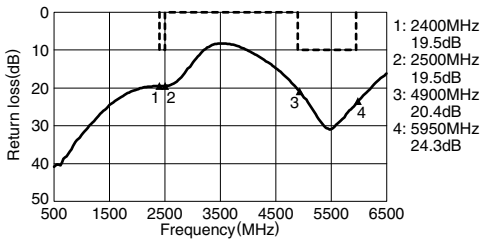
#### Low-BAND PORT RETURN LOSS



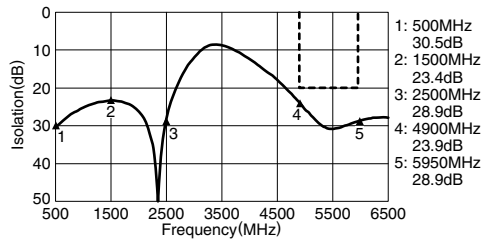
#### High-BAND PORT RETURN LOSS



#### ANTENNA PORT RETURN LOSS



#### ISOLATION (Low-High)

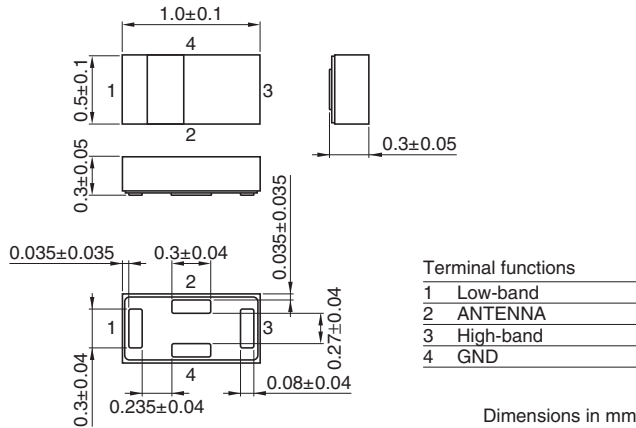


# 薄膜双工器 W-LAN用

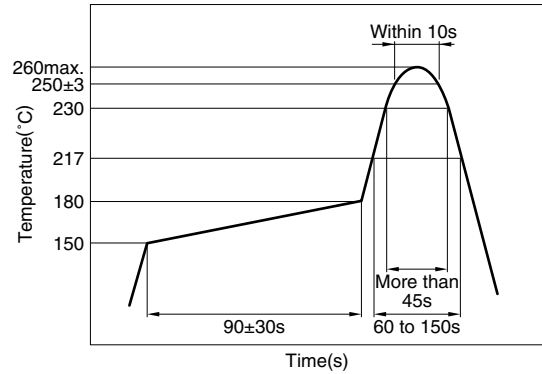
RoHS指令对应产品

TFSD系列 TFSD10055950-5102A2

## 形状·尺寸

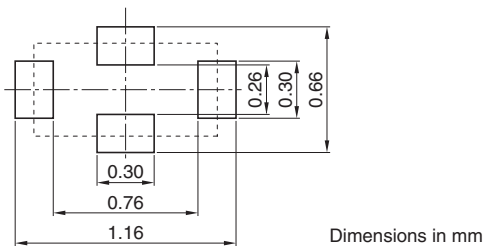


## 推荐回流焊接条件



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Reflow Soldering : Maximum 2 times

## 推荐印刷电路板图样



The recommended distance to the PCB ground plane is 0.2mm.  
Line width be designed to mach 50Ω characteristic impedance depending on PCB Material and thickness.

## 电气特性

| 项目   | 端口    | 频率范围             | 最小值      | 代表值  | 最大值  |
|------|-------|------------------|----------|------|------|
| 插入损耗 | 低频带*1 | 2400 to 2496MHz  | (dB) —   | 0.35 | 0.5  |
|      | 高频带*1 | 4900 to 5950MHz  | (dB) —   | 0.74 | 0.12 |
|      | 低频带*2 | 2400 to 2496MHz  | (dB) —   | —    | 0.65 |
|      | 高频带*2 | 4900 to 5950MHz  | (dB) —   | —    | 1.4  |
| 回波损耗 | ANT   | 2400 to 2500MHz  | (dB) 10  | 21.2 | —    |
|      | ANT   | 4900 to 5950MHz  | (dB) 10  | 15.2 | —    |
|      | 低频带   | 2400 to 2500MHz  | (dB) 10  | 18.0 | —    |
|      | 高频带   | 4900 to 5950MHz  | (dB) 10  | 14.8 | —    |
| 衰减量  | 低频带   | 4900 to 5950MHz  | (dB) 20  | 24.6 | —    |
|      | 低频带   | 7200 to 7488MHz  | (dB) 20  | 27.3 | —    |
|      | 高频带   | 500 to 2700MHz   | (dB) 26  | 30.8 | —    |
|      | 高频带   | 9800 to 11900MHz | (dB) 15  | 20.5 | —    |
| 绝缘   |       | 500 to 2700MHz   | (dB) 26  | 30.8 | —    |
|      |       | 4900 to 5950MHz  | (dB) 20  | 24.2 | —    |
| 温度范围 |       | 工作时              | (°C) -40 | —    | +85  |
|      |       | 保存时              | (°C) -40 | —    | +85  |

\*1 +25°C

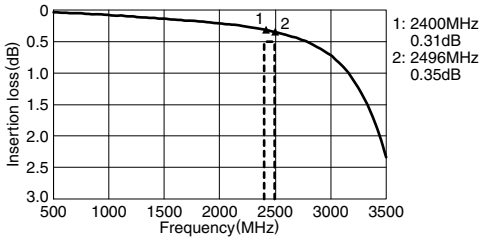
\*2 -40 to +85°C

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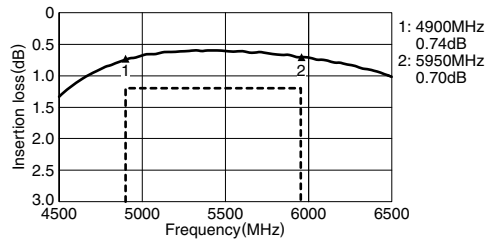
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### 频率特性

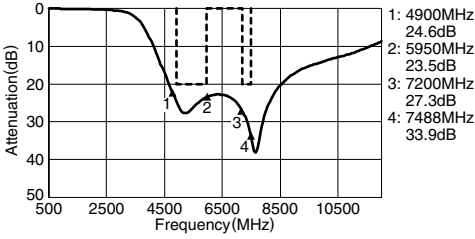
#### Low-BAND PORT INSERTION LOSS



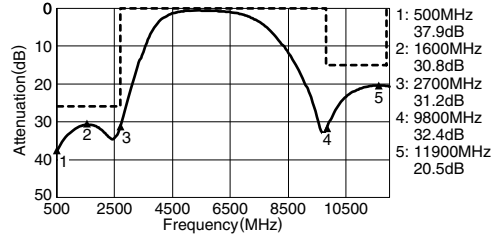
#### High-BAND PORT INSERTION LOSS



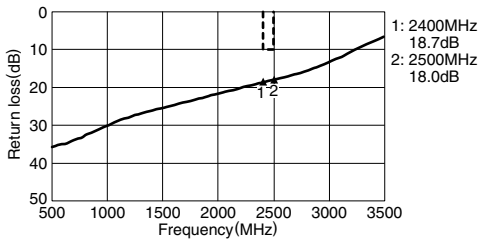
#### Low-BAND PORT ATTENUATION



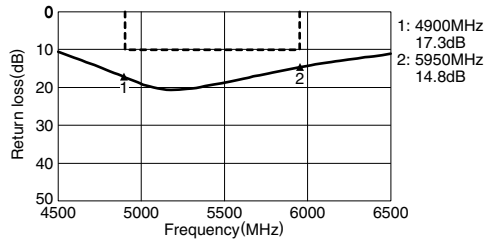
#### High-BAND PORT ATTENUATION



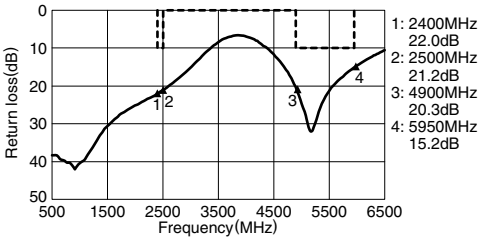
#### Low-BAND PORT RETURN LOSS



#### High-BAND PORT RETURN LOSS



#### ANTENNA PORT RETURN LOSS



#### ISOLATION (Low-High)

