

# 产品规格书

# SPECIFICATION

CUSTOMER 客户: \_\_\_\_\_

PRODUCT 产品: \_\_\_\_\_ SAW FILTER \_\_\_\_\_

MODEL NO 型号: \_\_\_\_\_ KH-SAWF259A \_\_\_\_\_

MARKING 印字: \_\_\_\_\_ ● 0 M \_\_\_\_\_

PREPARED 编制: \_\_\_\_\_ CHECKED 审核: \_\_\_\_\_

APPROVED 批准: \_\_\_\_\_ D A T E 日期: \_\_\_\_\_ 2019-4-30 \_\_\_\_\_

|                         |             |         |
|-------------------------|-------------|---------|
| 客户确认 CUSTOMER RECEIVED: |             |         |
| 审核 CHECKED              | 批准 APPROVED | 日期 DATE |
|                         |             |         |

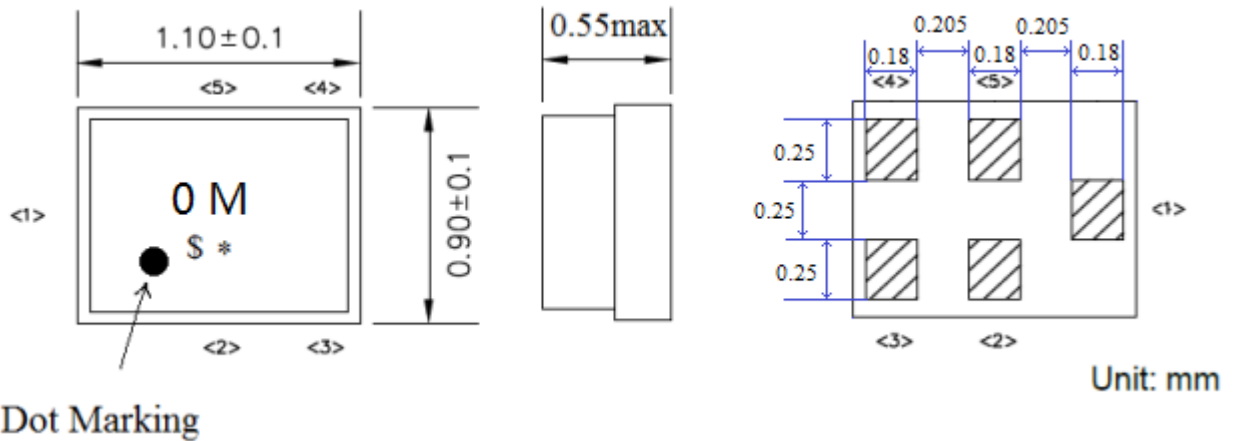
深圳市金航标电子有限公司  
SHENZHEN KINGHELM ELECTRON CO., LTD.



1. Application

- Post PA Filter for mobile telephone Band 41 systems.
- Impedance 50 ohm input and output.
- Unbalanced to unbalanced operation.
- Useable passband 120MHz.
- RoHS compatible.

2. DIMENSION



Marking: Laser Printing

S: EIAJ Code  
(Refer to the table 1)  
\*: Date Code  
(Refer to the table 2)

Pin configuration

1. Input  
4. Output  
2,3,5 To be grounded

Table 1 \$: EIAJ Code

This rule of code is applied repeatedly every four year.

|                      |      |      |      |      |     |      |      |      |      |      |      |      |
|----------------------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 2019<br>2023<br>2027 | Jan. | Feb. | Mar. | Apr. | May | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. |
|                      | A    | B    | C    | D    | E   | F    | G    | H    | J    | K    | L    | M    |
| 2020<br>2024<br>2028 | Jan. | Feb. | Mar. | Apr. | May | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. |
|                      | N    | P    | Q    | R    | S   | T    | U    | V    | W    | X    | Y    | Z    |
| 2021<br>2025<br>2029 | Jan. | Feb. | Mar. | Apr. | May | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. |
|                      | a    | b    | c̄   | d    | e   | f    | g    | h    | j    | k    | l    | m    |
| 2022<br>2026<br>2030 | Jan. | Feb. | Mar. | Apr. | May | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. |
|                      | n    | o    | p    | q    | r   | s    | t    | u    | v    | w    | x    | y    |

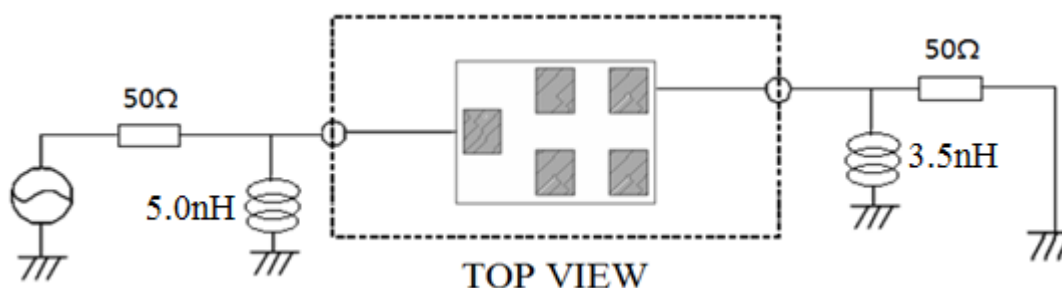
Table 2 \*: Date Code

|      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|
| date | 1st  | 2nd  | 3rd  | 4th  | 5th  | 6th  | 7th  | 8th  | 9th  | 10th |      |
| code | A    | B    | C    | D    | E    | F    | G    | H    | J    | K    |      |
| date | 11th | 12th | 13th | 14th | 15th | 16th | 17th | 18th | 19th | 20th |      |
| code | L    | M    | N    | P    | Q    | R    | S    | T    | U    | V    |      |
| date | 21st | 22nd | 23rd | 24th | 25th | 26th | 27th | 28th | 29th | 30th | 31st |
| code | W    | X    | Y    | Z    | a    | b    | c̄   | d    | e    | f    | g    |

### 3. Maximum Rating

| Items                      | Conditions        |
|----------------------------|-------------------|
| Operation temperature rang | -30°C ~ +85°C     |
| Storage temperature rang   | -40°C ~ +85°C     |
| ESD voltage                | ESD(MM) : 50VDC   |
| Sensitive discharge device | ESD(HBM) : 175VDC |
| DC Voltage VDC             | 5V                |
| Max Input Power            | 32dBm CW 5000h    |

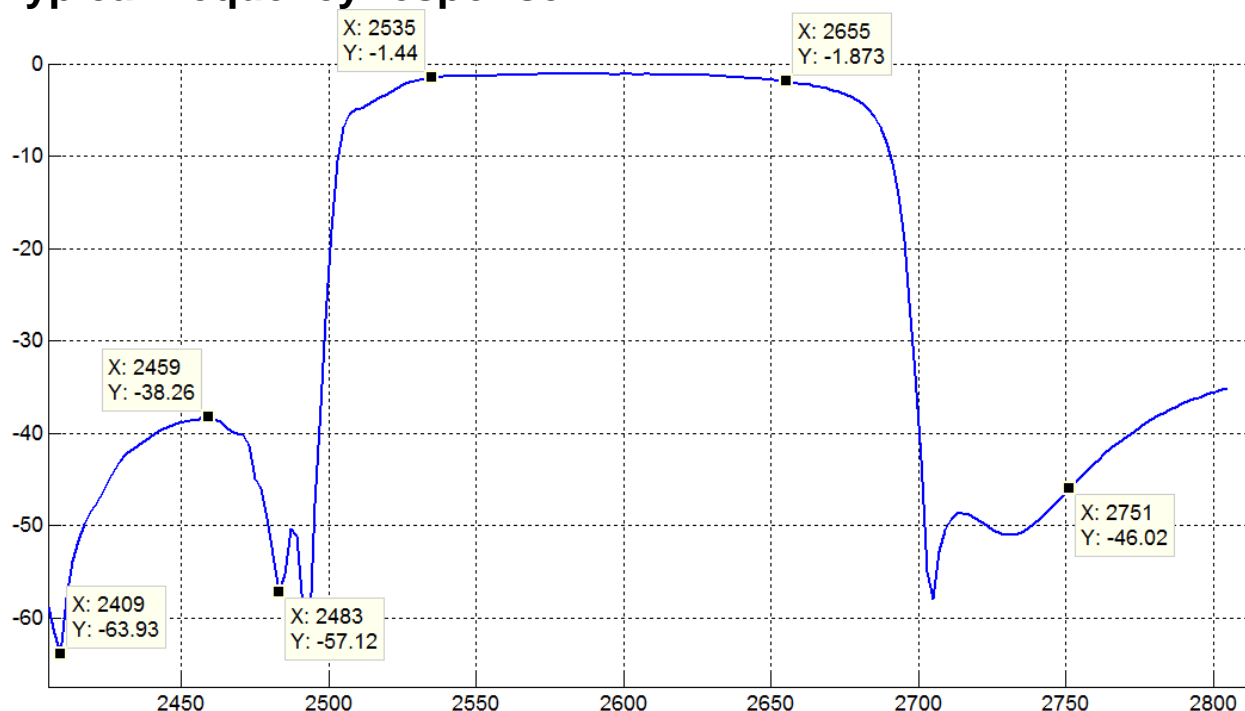
### 4. TEST CIRCUIT



### 5. ELECTRICAL SPECIFICATION

| Items                  | Test Condition | Min        | Typ  | Max | Unit |
|------------------------|----------------|------------|------|-----|------|
| Center Frequency       | Fc             | -          | 2595 | -   | MHz  |
| Insertion Loss         | 2535~2655 MHz  | -          | 1.8  | 2.4 | dB   |
| Amplitude Ripple (p-p) | 2535~2655 MHz  | -          | 1.0  | 2.0 | dB   |
| VSWR                   | 2535~2655 MHz  | -          | 1.6  | 2.0 |      |
| Attenuation            | 10~960 MHz     | 30         | 35   | -   | dB   |
|                        | 1225~2400 MHz  | 27         | 32   | -   | dB   |
|                        | 2400~2483 MHz  | 34         | 38   | -   | dB   |
|                        | 2750~4900 MHz  | 28         | 30   | -   | dB   |
|                        | 4900~6000 MHz  | 25         | 30   | -   | dB   |
| Input Impedance        | -              | 50Ω//3.5nH |      |     |      |
| Output Impedance       | -              | 50Ω//5.0nH |      |     |      |

## 6. Typical frequency response



## 7. Reliability test item & condition

| Category         | Reliability test items | Test condition            | Qty   | Description |                        |
|------------------|------------------------|---------------------------|---|-------------|------------------------|
| Environment Test | 1                      | Low temperature storage   | -40±5°C 240h  | 23          | JESD22-A119            |
|                  | 2                      | High temperature storage  | 125±5°C 240h  | 23          | JESD22-A103E           |
|                  | 3                      | High temperature humidity | 85°C 85%RH, 240h  | 23          | JESD22-A106B           |
|                  | 4                      | Thermal Shock             | -40 /30min~ +85 °C/30 min<br>100 cycle  | 23          | JESD22-A106A           |
| Mechanical Test  | 5                      | Drop Test                 | 152mm 12times Steel floor<br>JIG(110g~150g)                                   | 23          | IEC 1178-1.4.8.9       |
|                  | 6                      | Vibration                 | 10~55Hz, amplitude 1.5mm<br>Sweep time:1min,<br>X.Y.Z direction, 2h/direction | 23          | IEC 1178-1.4.8.7       |
| Physical Test    | 7                      | Soldering heat resistance | Reflow with 260±5°C, 10±1s<br>(Solder Pot)                                    | 23          | JIS C 5201 4.18        |
|                  | 8                      | Solderability test        | 235±5°C 3 sec. (Solder Pot)   | 50          | JIS C 5201 4.17        |
|                  | 9                      | Board adhesion            | 0.5mm/sec 1point push   | 11          | IEC 68-2-21 Ue3        |
|                  | 10                     | Leak Hunting              | 125°C Fluorocarbon oil leak<br>Hunting (30±1)s                                | 20          | MIL-STD-883E<br>1014.9 |

**8. REMARK**

8.1 Static voltage

Static voltage between signal load & ground may cause deterioration & destruction of the component. Please avoid static voltage.

8.2 Ultrasonic cleaning

Ultrasonic vibration may cause deterioration & destruction of the component. Please avoid ultrasonic cleaning

8.3 Soldering

Only pad component may be solded. Please avoid soldering another part of component.

**9. Packing**

9.1 Dimensions

(1) Carrier Tape: Figure 1

(2) Reel: Figure 2

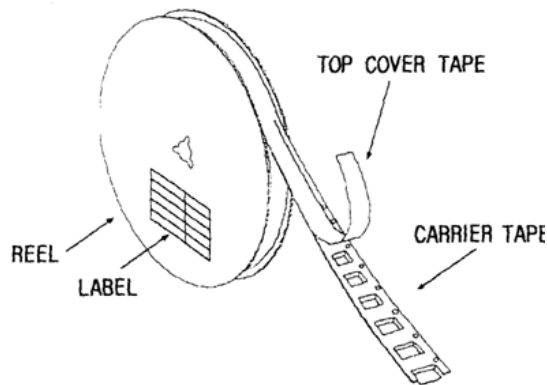
(3) The product shall be packed properly not to be damaged during transportation and storage.

9.2 Reeling Quantity

10000 pcs/reel  $\phi$  178mm

9.3 Taping Structure

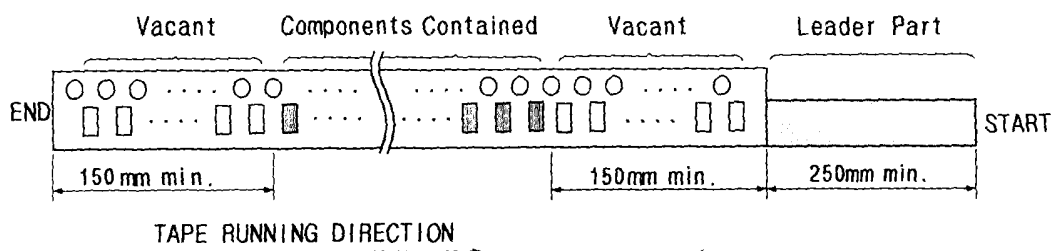
(1) The tape shall be wound around the reel in the direction shown below.



(2) Label

|                   |  |
|-------------------|--|
| Device Name       |  |
| Marking           |  |
| User Product Name |  |
| Quantity          |  |
| Lot No.           |  |

(3) Leader part and vacant position specifications.

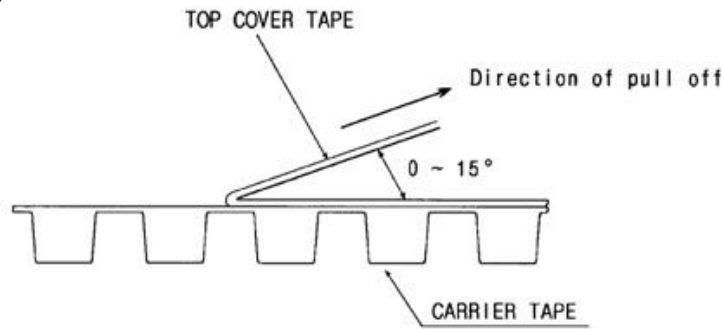


### 10. TAPE SPECIFICATIONS

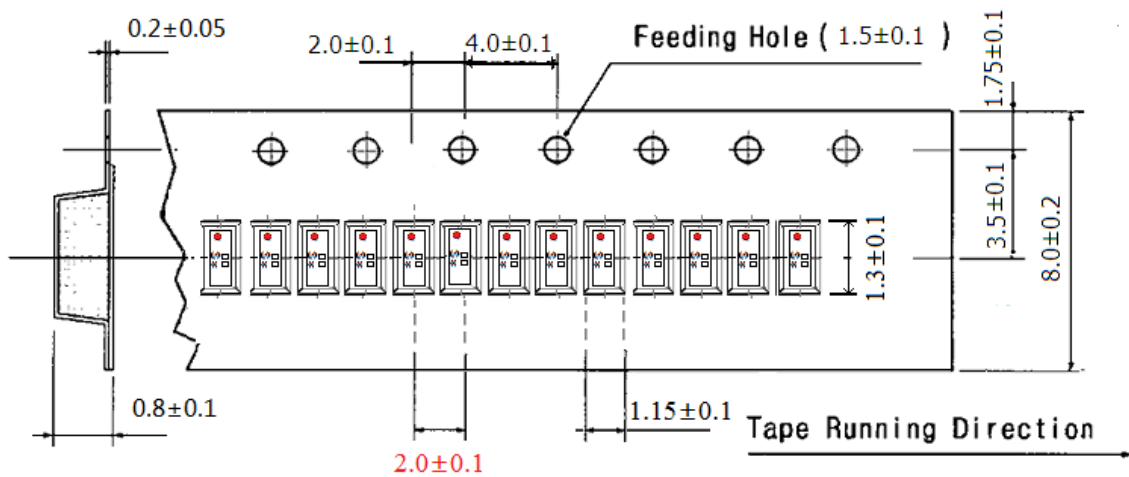
10.1 Tensile Strength of Carrier Tape: 4.4N/mm width

10.2 Top Cover Tape Adhesion (See the below figure)

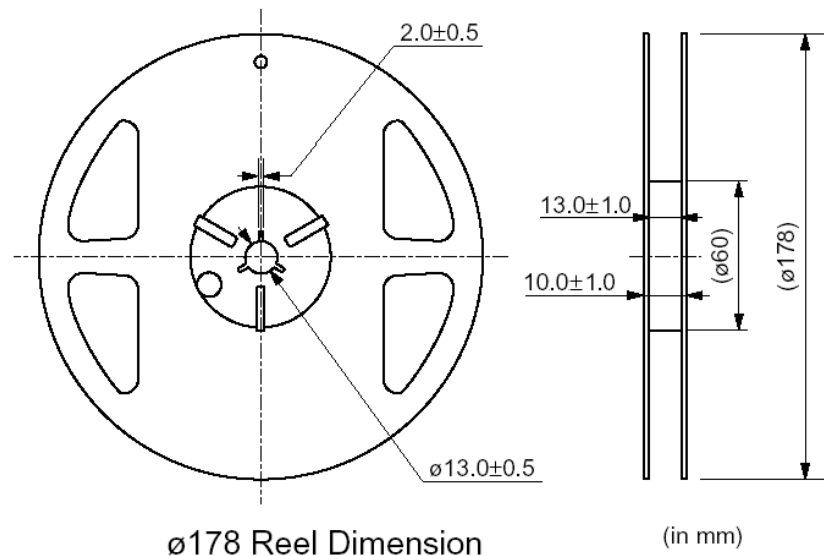
- (1) pull off angle: 0~15°
- (2) speed: 300mm/min.
- (3) force: 20~70g



[Figure 1] Carrier Tape Dimensions



[Figure 2] 10000 pcs/reel  $\phi$  178mm



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