

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

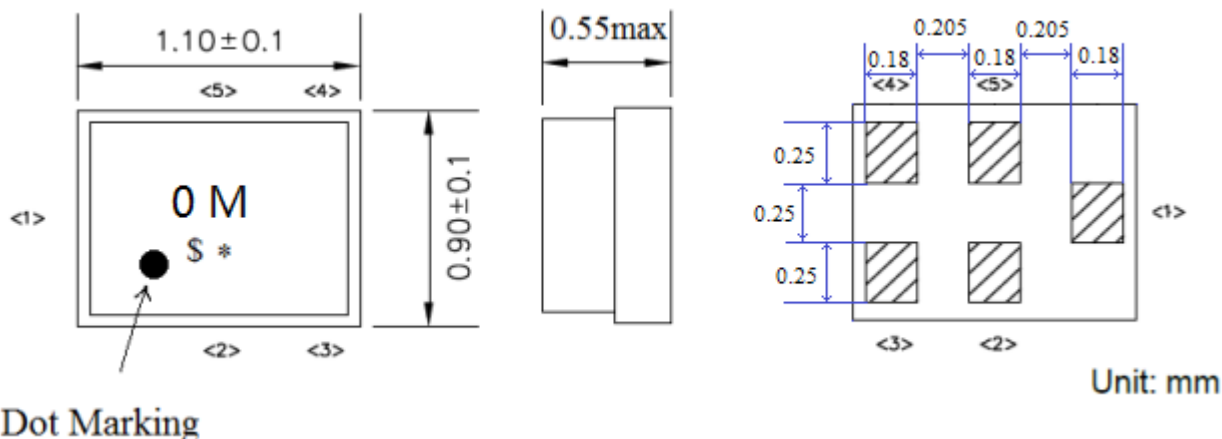
深圳市金航标电子有限公司
SHENZHEN KINGHELM ELECTRON CO., LTD.

SAW FILTER **KH-SAWF259A**

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



Dot Marking

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 S: EIAJ Code

This rule of code is applied repeatedly every four year.

2019 2023 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 2024 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 2025 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 2026 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

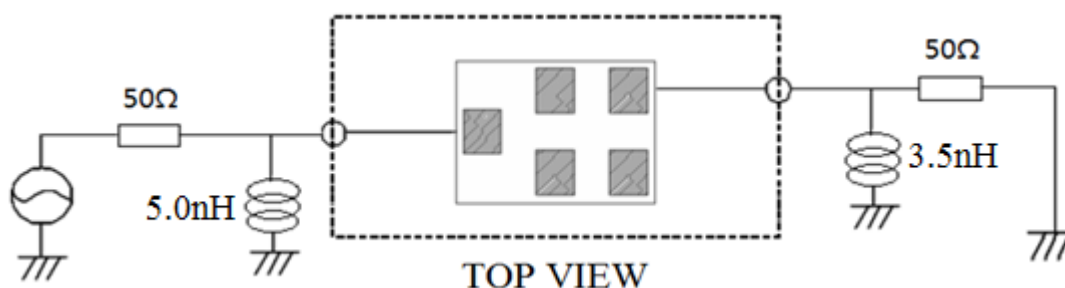
Table 2 *: Date Code

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

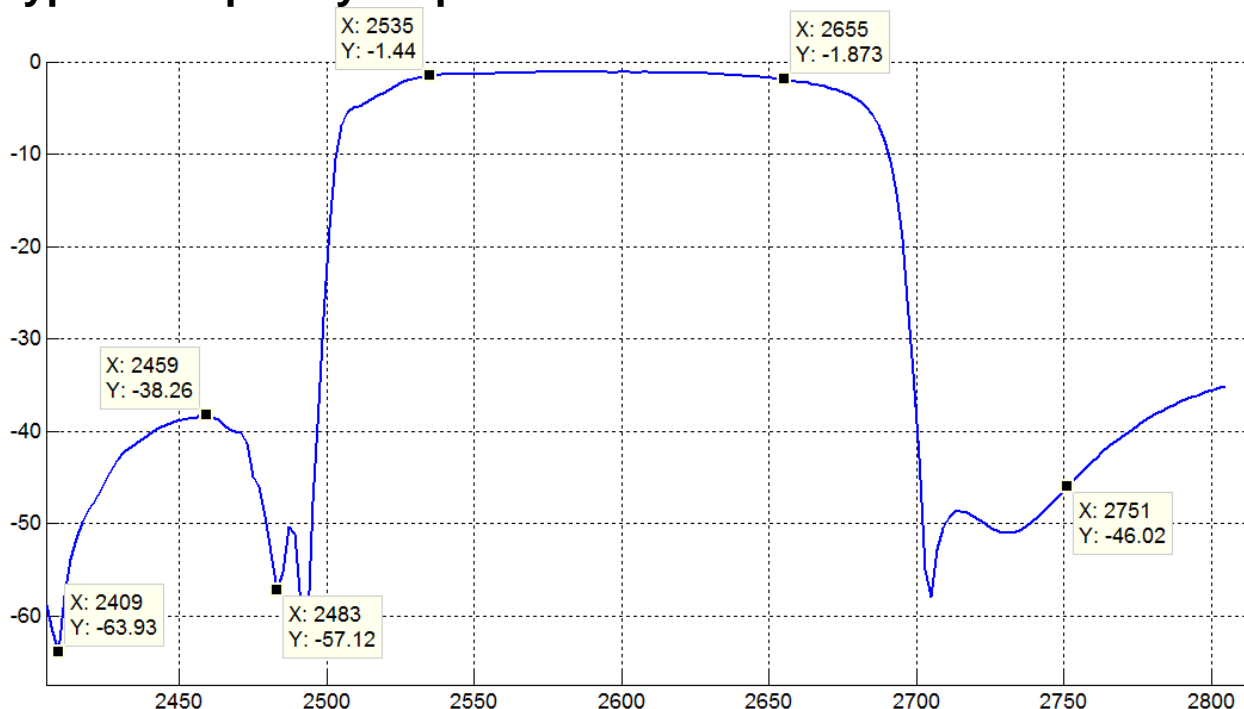
4. TEST CIRCUIT



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 100 cycle	23	JESD22-A106A
Mechanical Test	5	Drop Test	152mm 12times Steel floor JIG(110g~150g)	23	IEC 1178-1.4.8.9
	6	Vibration	10~55Hz, amplitude 1.5mm Sweep time:1min, 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 (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 Hunting (30±1)s	20	MIL-STD-883E 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

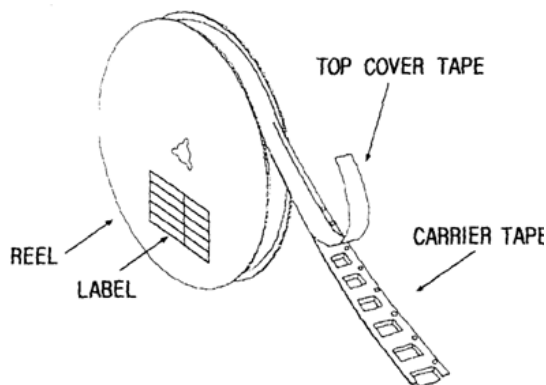
(3) The product shall be packed properly not to be damaged during transportation and storage.

9.2 Reeling Quantity

10000 pcs/reel ϕ 178mm

9.3 Taping Structure

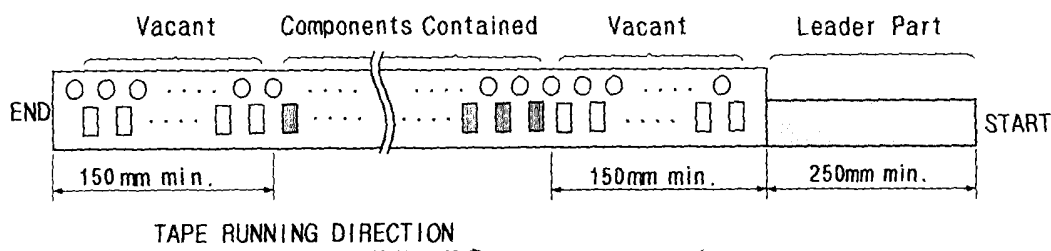
(1) The tape shall be wound around the reel in the direction shown below.



(2) Label

Device Name	
Marking	
User Product Name	
Quantity	
Lot No.	

(3) Leader part and vacant position specifications.

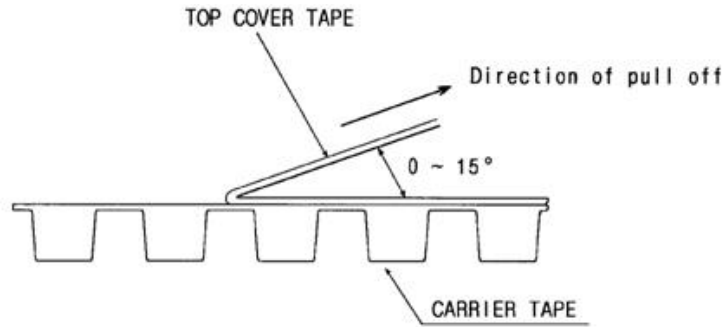


10. TAPE SPECIFICATIONS

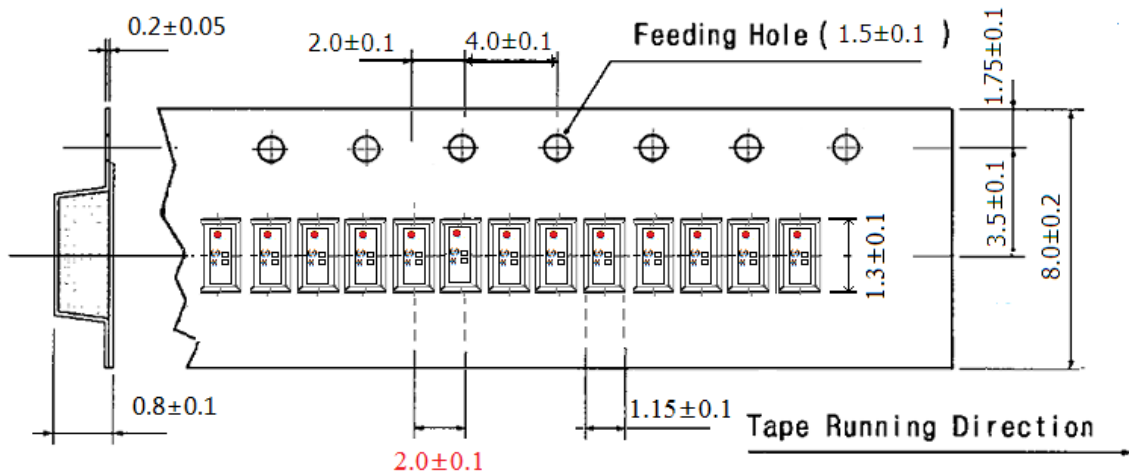
10.1 Tensile Strength of Carrier Tape: 4.4N/mm width

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 ϕ 178mm

