

SPECIFICATION FOR APPROVAL

CUSTOMER'S APPROVAL CHOP	
Approval's condition:	_____
Approved date:	_____

KINDLY RETURN A SET WITH YOUR COMPANY'S OFFICIAL
STAMP ON APPROVAL OF THIS ITEM

CUSTOMER'S NAME:

CUSTOMER'S MODEL NO. :

CUSTOMER'S PART NO. :

DESCRIPTION:

5G n48 22.5mm with converter board DR Filter

Semitel'S MODEL NO. :

SP6R3625B150_24.5_058

VERSION:

02

DATE:

2025/5/15

Attachments:

- ☐ Product specification
- ☐ Sample Qty.:
- ☐ Test data

Prepared By	Checked By	Approved By
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Revision Record

[illegible]

Semitel'S MODEL NO. :	SP6R3625B150_24.5_058	CUSTOMER'S MODEL NO.:	
VERSION :	02	CUSTOMER'S PART NO. :	
DATE :	2025/5/15		

1.FEATURES

- Small Size, Light weight
- SMT package soldering
- Ideal for Microwave telecommunication

2.SPECIFICATIONS

ELECTRICAL SPECIFICATIONS			
NO.	ITEM	SPEC	UNIT
1	Center Frequency [fo]	3625	MHz
2	Bandwidth [BW]	$f_o \pm 75 [3550 \sim 3700]$	MHz
3	Insertion Loss in BW	2.7 max.	dB
4	Ripple in BW	2.0 max.	dB
5	Return Loss in BW (S11, S22)	16 min.	dB
6	Attenuation[Absolute Value]	17 dB min. @ DC~3530 MHz	dB
		17 dB min. @ 3720~5000 MHz	
7	In/Out Impedance	50	Ω
8	Max. Input Power	100 max. (C type)	W
9	[Operation Temperature Range]	-40℃ to +105℃	

^ All Parameters are measured with 50 Ω system at +25℃ if not specified.

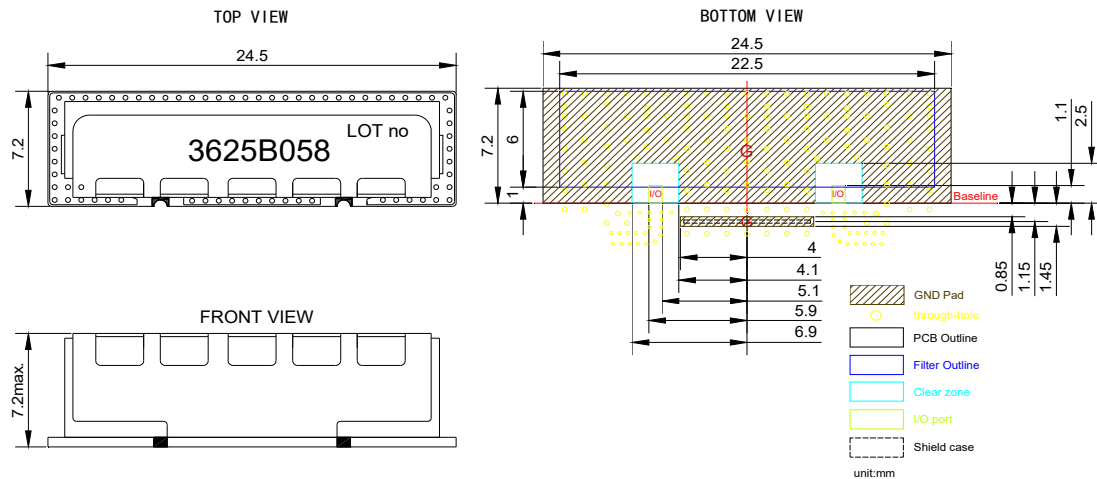
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3.OUTLINE DRAWING and Weight

3.1. Filter drawing

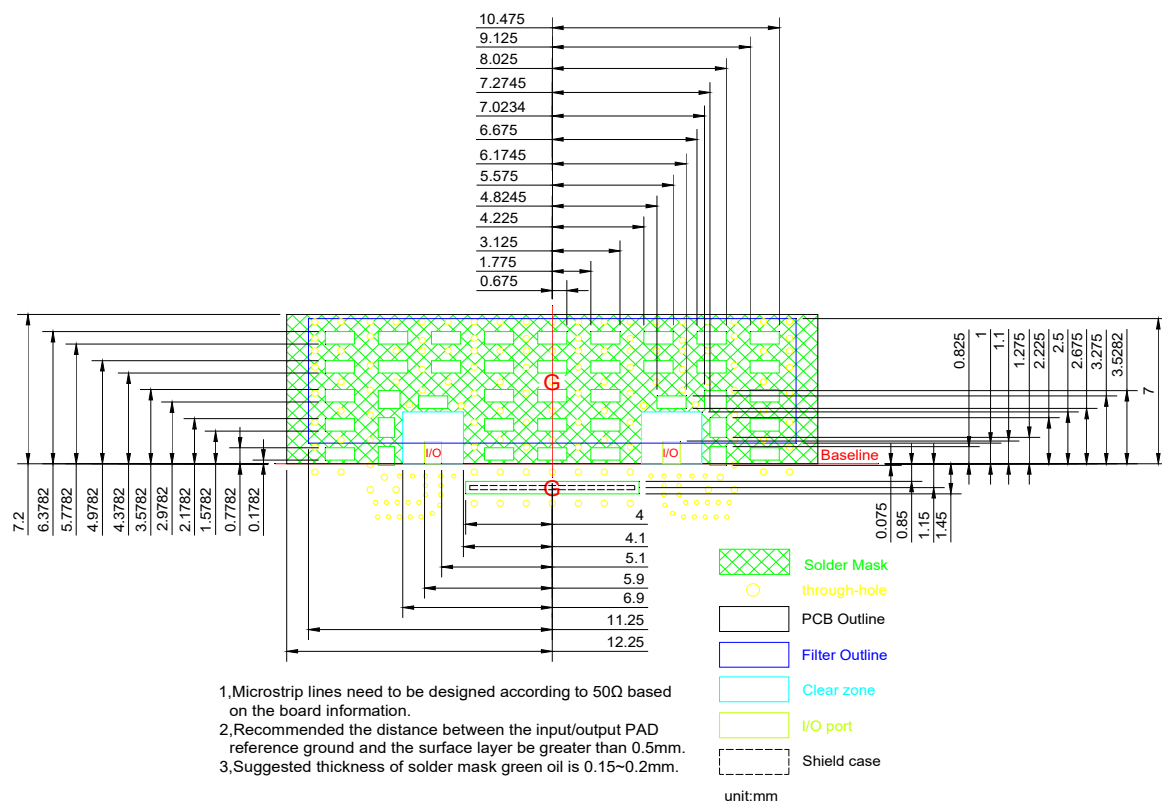
3.2. P/N SP6R3625B150_24.5_058 marking information as
(marking showing 3625Bxxx, xxx=001~999 mean for project series code.)

3.3. Unit Weight: 2.9g



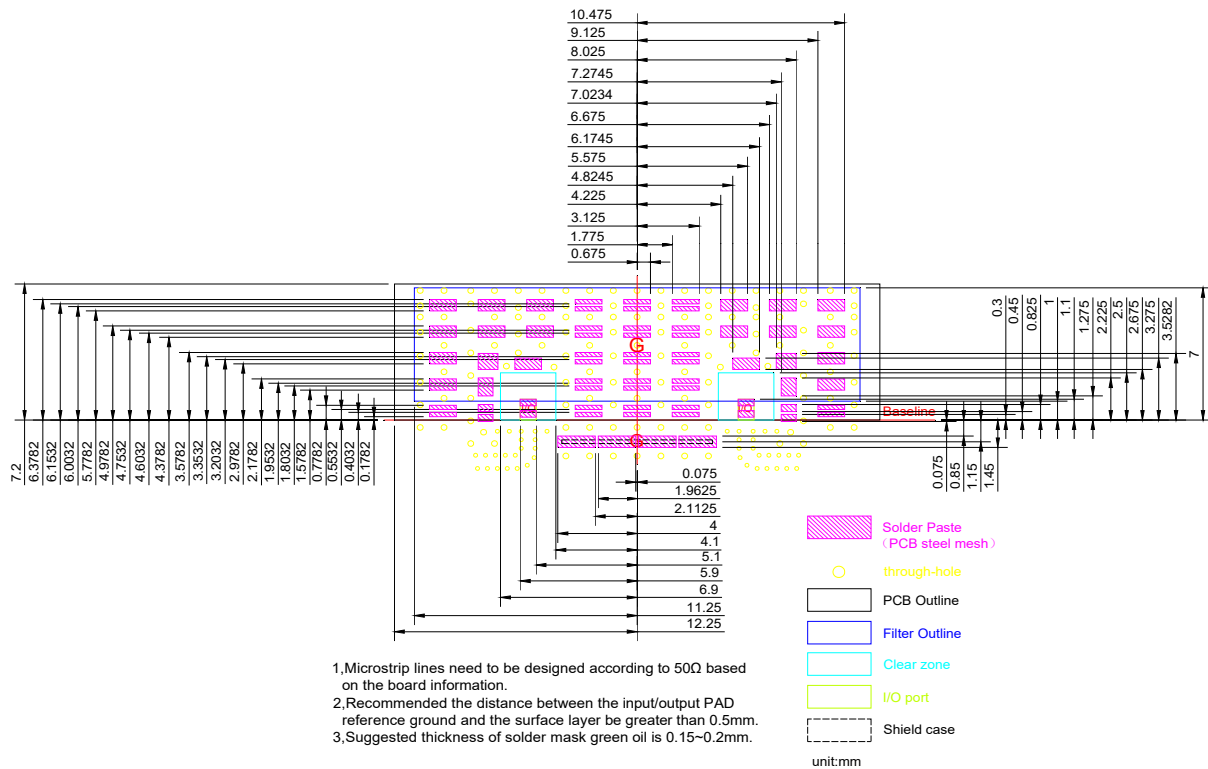
4.RECOMMENDED PC BOARD PATTERN

4.1. Solder mask layer

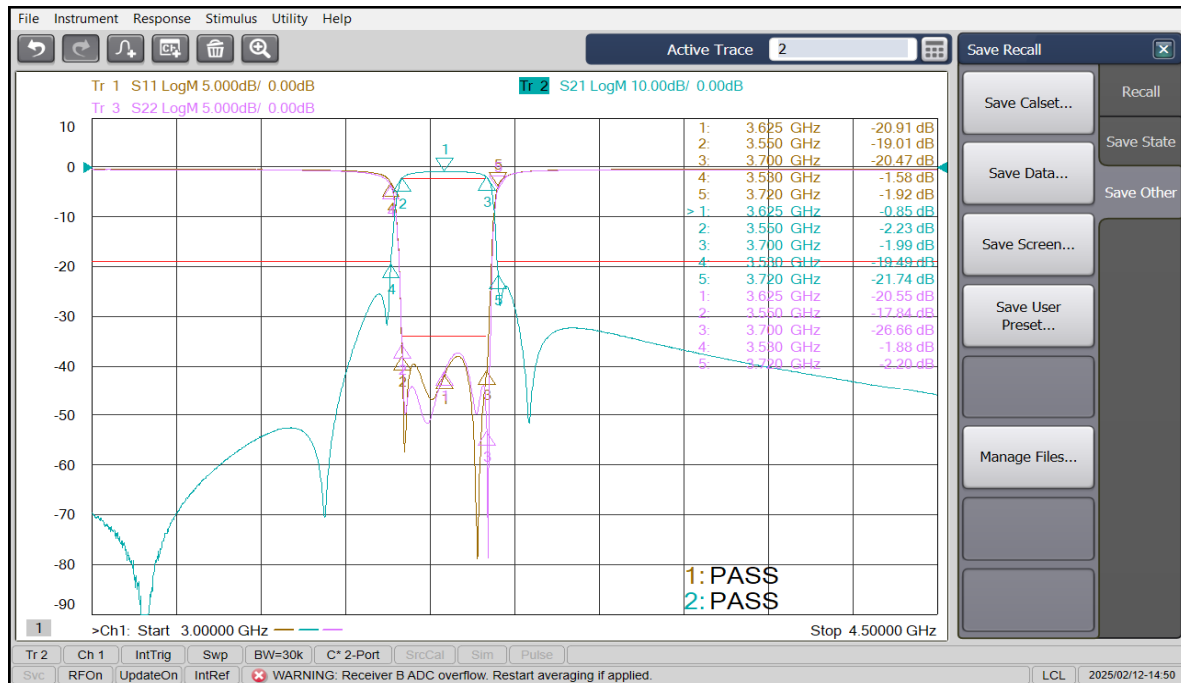


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4.2. Solder paste layer



5.FREQUENCY RESPONSE

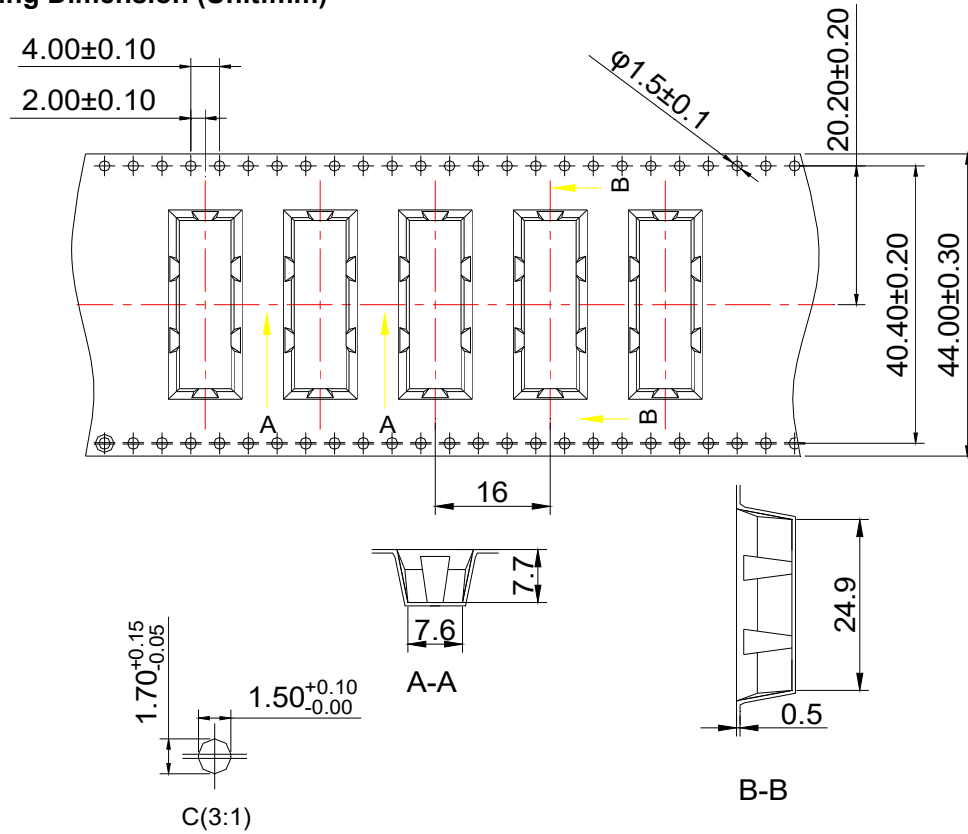


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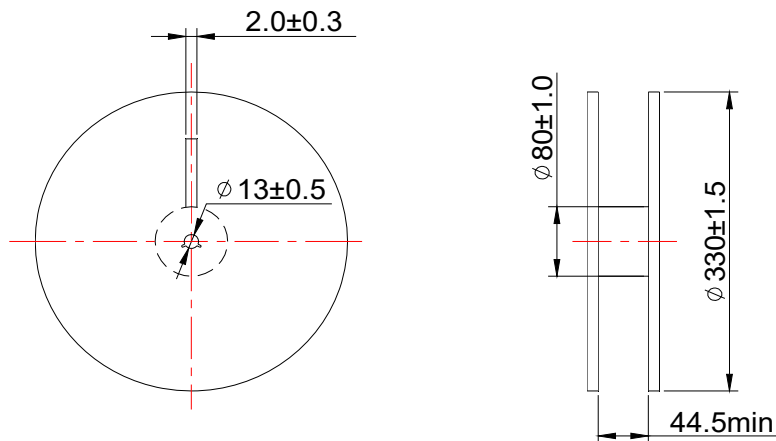
6. Tape and Reel Dimension

6.1. Quantity per reel:400pcs

6.2. Taping Dimension (Unit:mm)



6.3. Reel Dimension (Unit:mm)



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7.Environmental Test

7.1. Vibration Resist

The device should satisfy the electrical characteristics after applied to the vibration of 10 to 55Hz with amplitude of 1.5mm for 2 hours each in X, Y and Z directions.

7.2. Steady Damp Heat Test

The device should satisfy the electrical characteristics after exposed to the temperature $40\pm2^{\circ}\text{C}$ and the relative humidity 90~95% RH for 96 hours and 1~2 hours recovery time under normal condition.

7.3. High Temperature Storage

The device should satisfy the electrical characteristics after exposed to temperature $85\pm5^{\circ}\text{C}$ for 96 ± 2 hours and 1~2 hours recovery time under normal temperature.

7.4. Low Temperature Storage

The device should also satisfy the electrical characteristics after exposed to the temperature $40^{\circ}\text{C}\pm5^{\circ}\text{C}$ for 96 ± 2 hours and to 2 hours recovery time under normal temperature.

7.5. Thermal Shock

The device should also satisfy the electrical characteristics after exposed to the low temperature -40°C and high temperature $+85^{\circ}\text{C}$ for 30 ± 2 min each by 5 cycles and 1 to 2 hours recovery time under normal temperature.

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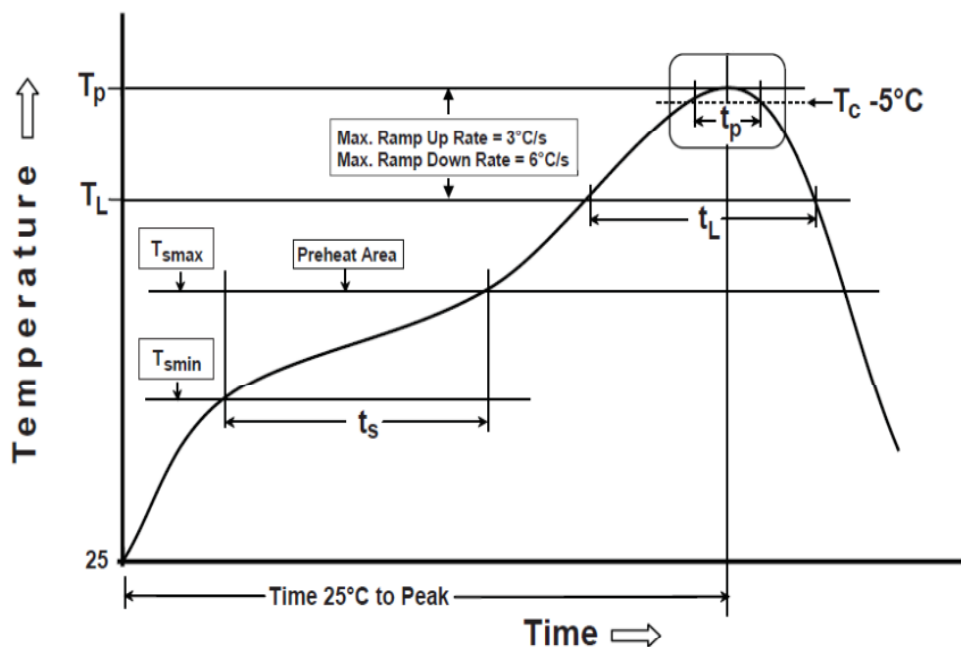
8.NOTICE

8.1. RoHS 2.0

8.2. MSL-2a

8.3. Reflow temperature recommendation

Profile feature		Pb-Free Assembly(SnAgCu)
PREHEAT	Temperature Min(Tsmin)	150°C
	Temperature Max(Tsmax)	200°C
	Time(ts) (from Tsmin to Tsmax)	60-120 seconds
RAMP-UP	Ramp-up rate (TL to TP)	3 °C/second max.
REFLOW	Liquidus Temperature(TL)	217°C
	Total Time maintained above TL (t L)	30-100 seconds
PEAK	Temperature(TP)	250°C
	Time (tp)	25 seconds
RAMP-DOWN	Ramp-down rate (TP to TL)	6 °C / second max.
Time (from 25°C to Peak Temperature) 25°C		8 minutes max.



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