

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:

Dielectric Filter

Semitel'S MODEL NO. :

SE4R3625B150_8.8_086

VERSION:

01

DATE:

2025/7/10

Attachments:

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

Prepared By	Checked By	Approved By
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Revision Record

[illegible]

Semitel'S MODEL NO. :	SE4R3625B150_8.8_086	CUSTOMER'S MODEL NO.:	
VERSION :	01	CUSTOMER'S PART NO. :	
DATE :	2025/7/10		

Semitel International Ltd.,

1.FEATURES

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

2.SPECIFICATIONS

ELECTRICAL SPECIFICATIONS					
NO.	ITEM		SPEC @25℃	SPEC @-40℃~+105℃	UNIT
1	Center Frequency [fo]		3625		MHz
2	Bandwidth [BW]		fo±75[3550~3700]		MHz
3	Insertion in BW (20MHz avg.)		2.1 max.	2.1 max.	dB
4	Insertion in BW (10MHz avg.)		2.3 max.	2.5 max.	dB
5	Insertion in BW (over 20MHz)		1.3 max.	1.6 max.	dB
6	Return Loss in BW (S11, S22)		10.0 min.	10.0 min.	dB
7	Attenuation [Absolute Value]	@ 1~2690 MHz	27min.	27min.	dB
		@ 2690~3300 MHz	9 min.	9 min.	dB
		@ 3300~3530 MHz	6 min.	6 min.	dB
		@ 3720~3800 MHz	6 min.	5 min.	dB
		@ 3800~4200 MHz	9 min.	9 min.	dB
		@ 4200~4400 MHz	20 min.	20 min.	dB
		@ 4400~5925 MHz	27 min.	27 min.	dB
		@ 7100~7400 MHz	15 min.	15 min.	dB
8	In/Out Impedance		50		Ω
9	Input Power		2 avg/ 20 peak		W
10	Operation Temperature Range		-40℃ to +105℃		

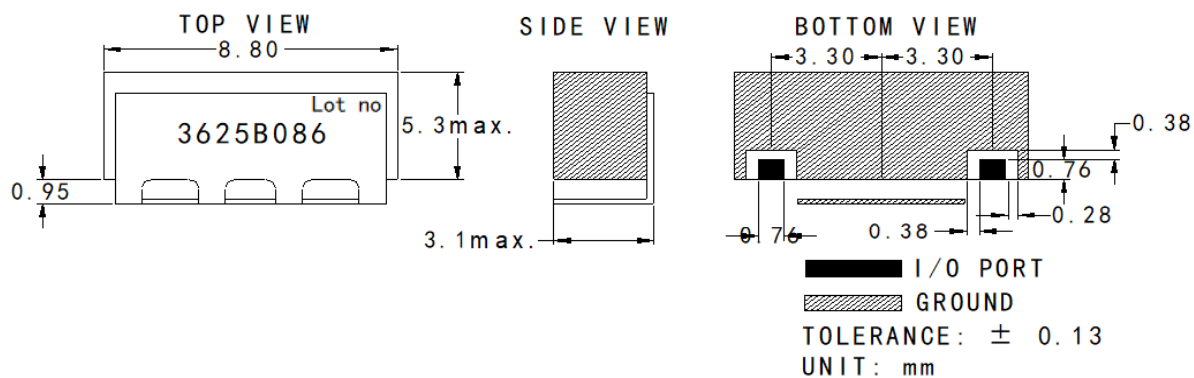
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3.OUTLINE DRAWING

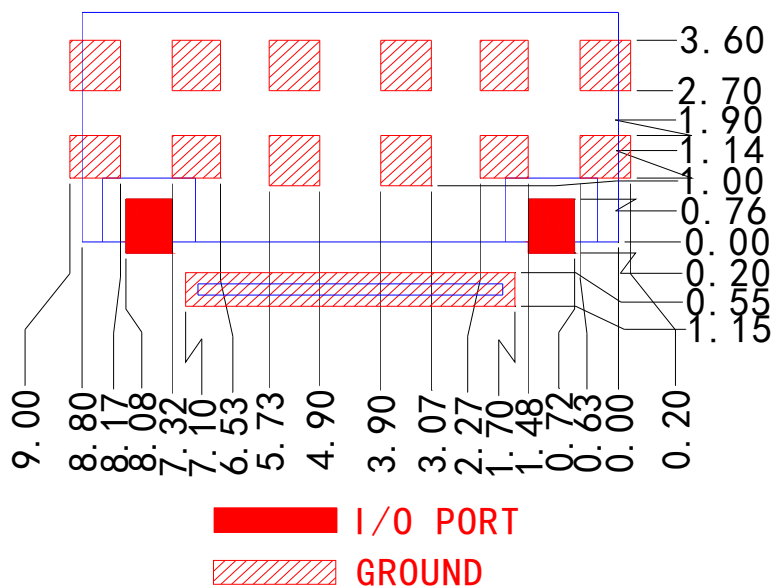
3.1. Filter drawing

3.2. SE4R3625B150_8.8_086

(marking showing 3625Bxxx, xxx=001~999 mean for project series code.)



4.RECOMMENDED PC BOARD PATTERN



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5.Environmental Test

5.1. 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.

5.2. Steady Damp Heat Test

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

5.3. High Temperature Storage

The device should satisfy the electrical characteristics after exposed to temperature $85\pm 5^{\circ}\text{C}$ for 96 ± 2 hours and 1~2 hours recovery time under normal temperature.

5.4. Low Temperature Storage

The device should also satisfy the electrical characteristics after exposed to the temperature $40^{\circ}\text{C}\pm 5^{\circ}\text{C}$ for 96 ± 2 hours and to 2 hours recovery time under normal temperature.

5.5. 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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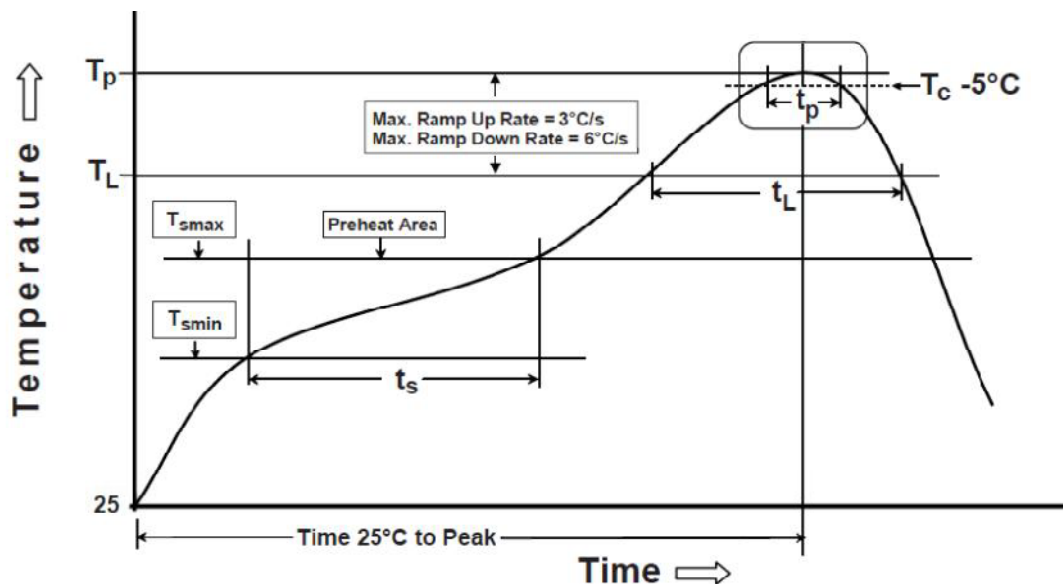
6.NOTICE

6.1. RoHS 2.0

6.2. MSL-1

6.3. 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.



This product may not be used in the following environments:

- 1.Ambient air containing corrosive gas and volatile or combustible gas.
- 2.In liquid and in environments with a high concentration of airborne particles.

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