



# SPECIFICATION FOR APPROVAL

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:	CERAMIC N	MONOBLOCK FILTE	ER
	Semitel'S MODEL NO. :	SE8R25	93B194_25.7_046	
	VERSION:		Α	
	DATE:	2	024/8/2	
Atta	achments:	Prepared By	Checked By	Approved By
□ Pro	duct Specification	Haba Dana	1 : 10/	Frie Oberna
□ San	nple Qty.:	Hebe Deng 2024/8/2	Liang Wong 2024/8/2	Eric Chang 2024/8/2
□ Tes	t Data			

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# **Revision Record**

Version	Revision Date	Revision For Items	Reason For Revision
A	2024/8/2	New Revision	-
	l	I	

Semitel'S MODEL NO. :	SE8R2593B194_25.7_046	CUSTOMER'S MODEL NO. :	
VERSION:	Α	CUSTOMER'S PART NO. :	
DATE:	2024/8/2		



### 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]	2593	MHz	
2	Bandwidth [BW]	fo±97[2496~2690]	MHz	
3	Insertion Loss in BW	2.0 max. @25	dB	
3	Insertion loss in byv	2.5 max. @-40 ~+85	ав	
4	Ripple in BW	1.5 max.	dB	
5	Return Loss in BW(S11, S22)	14 min.	dB	
6	Attanuation[Absolute Value]	15 dB min. @ 10~2476 MHz	dB	
	Attenuation[Absolute Value]	15 dB min. @ 2710~4500 MHz	ub	
7	In/Out Impedance	50	Ω	
8	[Operation Temperature Range]	-40°C to +105°C		
9	Input Power	8W		

<sup>^</sup> All Parameters are measured with 50 $\Omega$  system at +25  $^{\circ}\mathrm{C}$  if not specified.

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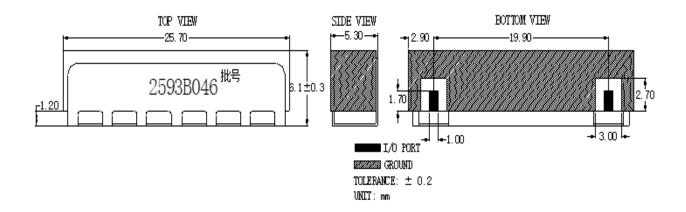


### 3.OUTLINE DRAWING

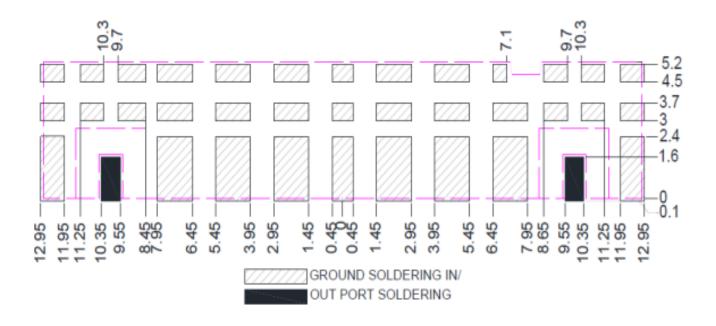
### 3.1. Filter drawing

### 3.2. SE8R2593B194\_25.7\_Xxx

(marking showing 8R2593Xxx= A~Z, xx=01~99 mean for project series code.)



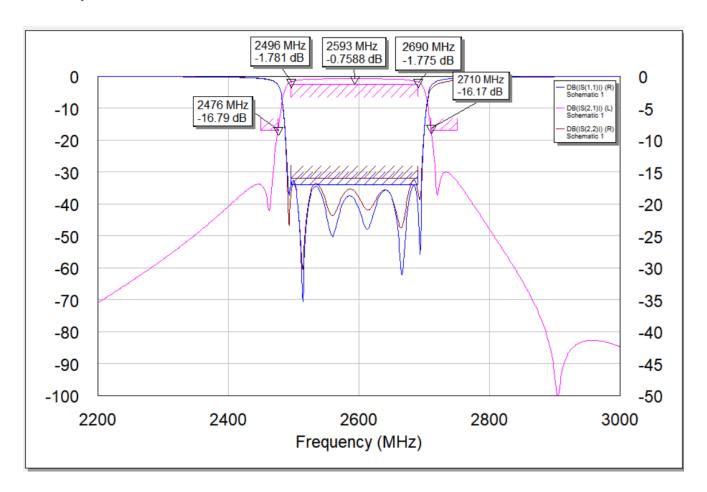
### **4.RECOMMENDED PC BOARD PATTERN**



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## **5.FREQUENCY RESPONSE**



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### **6.Environmental Test**

#### **6.1 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.

### **6.2 Steady Damp Heat Test**

The device should satisfy the electrical characteristics after exposed to the temperature 40

±2°Cand the relative humidity 90~95% RH for 96 hours and 1~2 hours recovery time under

normal condition.

### **6.3 High Temperature Storage**

The device should satisfy the electrical characteristics after exposed to temperature 85  $\pm$ 

5°Cf or 96±2 hours and 1~2 hours recovery time under normal temperature.

### **6.4 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  $96\pm2$  hours and to 2 hours recovery time under normal temperature.

#### 6.5 Thermal Shock

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

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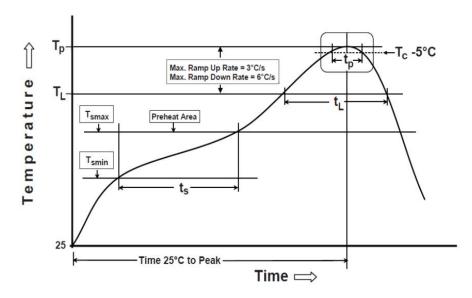




### 6.Notice

- 1. RoHS 2.0
- 2. MSL-1
- 3. Reflow temperature recommendation

Profile feature		Pb-Free Assembly(SnAgCu)
	Temperature Min(Tsmin)	150°C
PREHEAT	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)  Total Time maintained above TL  (t L)	217°C 30-100 seconds
PEAK	Temperature(TP)	250°C
PEAK	Time (tp)	25 seconds
RAMP-DOWN Ramp-down rate (TP to TI		6 °C / second max.
Time (from 25°C t	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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