

□ Test Data



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:	Die	electric Filter	
Semitel'S MODEL NO. :	SE8R259	93B194_15.9_041	
VERSION:		Α	
DATE:	2	024/7/18	
Attachments:	Prepared By	Checked By	Approved By
■ Product Specification			
■ Sample Qty. :	Hebe Deng 2024/7/18	Liang Wong 2024/7/18	Eric Chang 2024/7/18

Semitel International Ltd.,	TEL: 886-2-86922121	FAX: 886-2-26483379
	12F, No.183, Sec.1, Datong City 22145, Taiwan	Rd., Xizhi Dist., New Taipei





Revision Record

Version	Revision Date	Revision For Items	Reason For Revision
A	2024/7/18	New Revision	-

Semitel'S MODEL NO. :	SE8R2593B194_15.9_041	CUSTOMER'S MODEL NO. :	
VERSION:	Α	CUSTOMER'S PART NO. :	
DATE:	2024/7/18		





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 in BW	2.0 max.@25 °C	dB	
3	insertion in BW	2.3max.@-40°C to +105°C	T ub	
4	Ripple in BW	1.5 max.	dB	
5	VSWR in BW(S11,S22)	1.5:1 max.	Ratio	
6	In/Out Impedance	50	Ω	
		35 min. @ DC~2400 MHz	dB	
7	Attenuation[Absolute Value]	20 min. @ 2400~2456 MHz	dB	
,	Attenuation[Absolute value]	20 min. @ 2730~2750 MHz	dB	
		35 min. @ 2750~4000 MHz	dB	
8	Operation Temperature Range	-40 °C to +105 °C		
9	Input Power	3W		

Semitel'S MODEL NO. :	SE8R2593B194_15.9_041	CUSTOMER'S MODEL NO. :	
VERSION:	Α	CUSTOMER'S PART NO. :	
DATE:	2024/7/18		

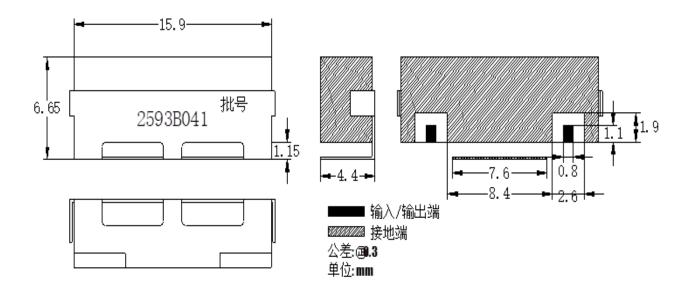




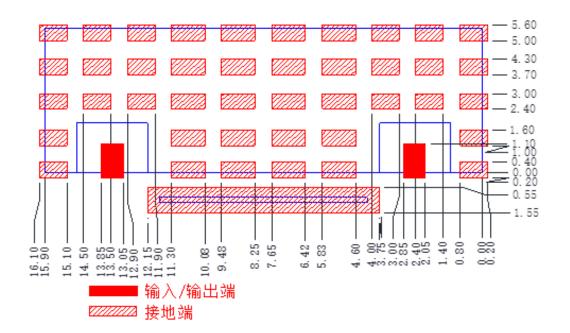
3.OUTLINE DRAWING

- 3.1. Filter drawing
- 3.2. SE8R2593B194_15.9_041

(marking showing 2593Bxxx, xxx=01~99 mean for project series code.)



4. RECOMMENDED PC BOARD PATTERN

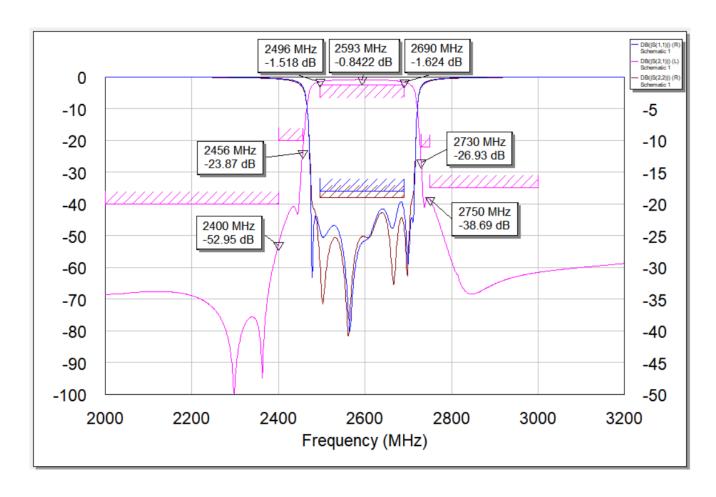


Semitel'S MODEL NO. :	SE8R2593B194_15.9_041	CUSTOMER'S MODEL NO. :	
VERSION:	Α	CUSTOMER'S PART NO. :	
DATE:	2024/7/18		

Semitel International Ltd.,



5.FREQUENCY RESPONSE



Semitel'S MODEL NO. :	SE8R2593B194_15.9_041	CUSTOMER'S MODEL NO. :	
VERSION:	Α	CUSTOMER'S PART NO. :	
DATE:	2024/7/18		





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±

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°C±5°C for 96±2 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°C and high temperature +85°C for 30±2 min each by 5 cycles and 1 to 2 hours recovery time under normal temperature.

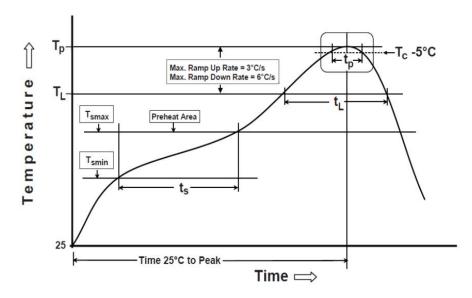
Semitel'S MODEL NO. :	SE8R2593B194_15.9_041	CUSTOMER'S MODEL NO. :	
VERSION:	Α	CUSTOMER'S PART NO. :	
DATE:	2024/7/18		



7. 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
FEAK	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.

Semitel'S MODEL NO. :	SE8R2593B194_15.9_041	CUSTOMER'S MODEL NO. :	
VERSION:	Α	CUSTOMER'S PART NO. :	
DATE:	2024/7/18		