





## 7-°uyk-o

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

oh-#@#@° u@Vo

ELECTRICAL SPECIFICATIONS			
NO	ITEM	SPEC	Unit
1	Center Frequency [fo]	3840	MHz
2	Bandwidth [BW]	fo ±140[3700~3980]	MHz
3	Insertion in BW	2.0 max.@25°C	dB
		2.5max.@-40°C to +105°C	
4	Ripple in BW	1.5 max.	dB
5	Return Losss in BW (S11, S22)	15 min.	dB
6	In/Out Impedance	50	Ω
7	Attenuation[Absolute Value]	30 min. @ DC~3640 MHz	dB
		30 min. @ 3640~5500 MHz	dB
8	Operation Temperature Range	-40°C to +105°C	
9	Max Input Power	100W(C組)	
10	Measurement Semitel	44R	

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

Semitel'S MODEL NO. :	SE8R3840B280_15.9_043	CUSTOMER'S MODEL NO. :	
VERSION:	02	CUSTOMER'S PART NO. :	
DATE:	2025/2/12		

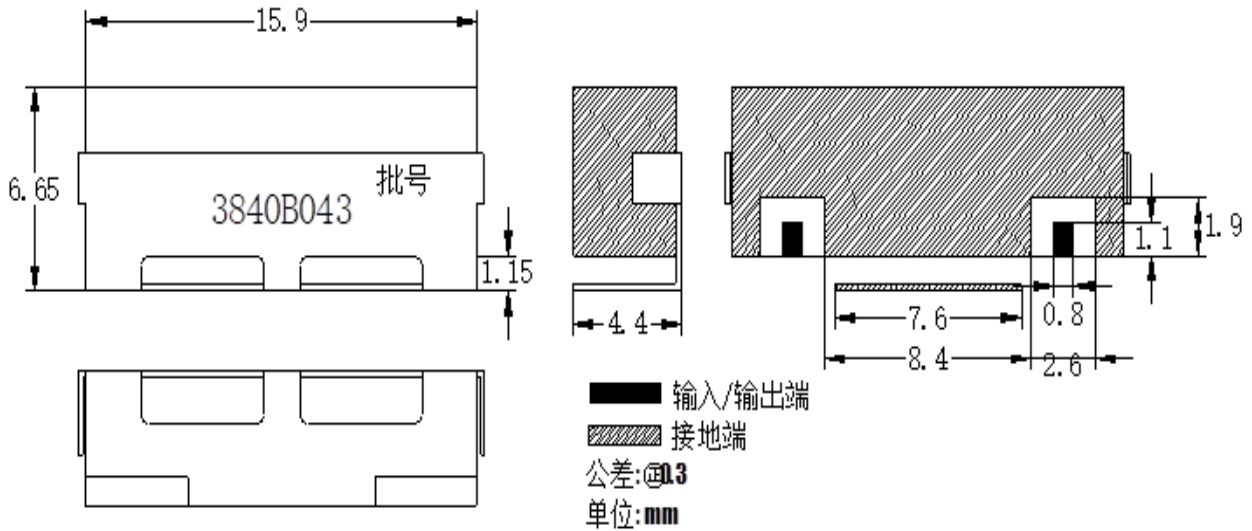
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### 3.OUTLINE DRAWING

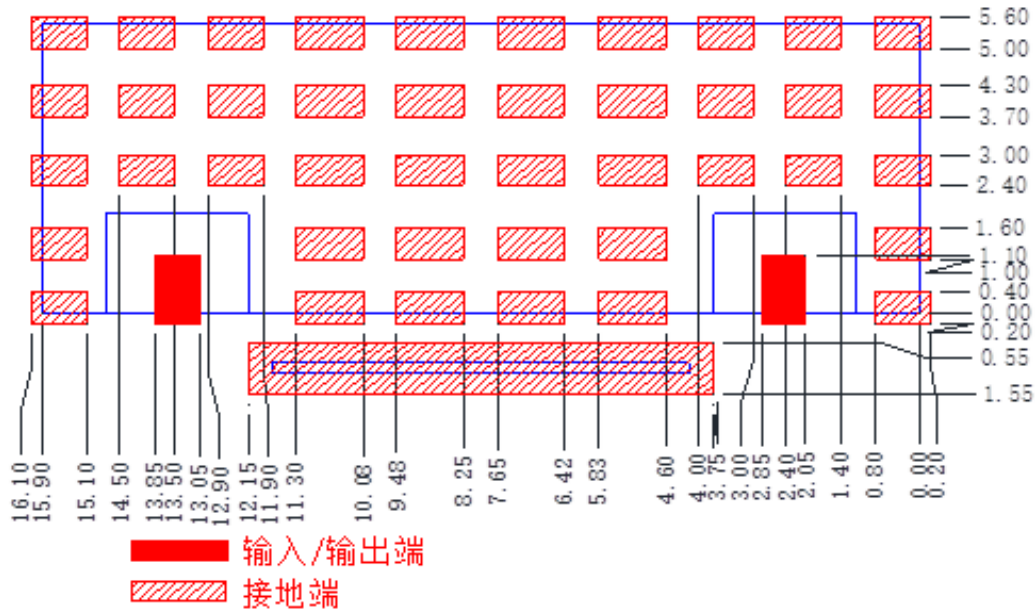
#### 3.1. Filter drawing

#### 3.2. SE8R3840B280\_15.9\_043

(marking showing 3840Bxxx, xxx=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

$\pm 2^{\circ}\text{C}$  and 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 $^{\circ}\text{C}$ f or 96 $\pm$ 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 $^{\circ}\text{C}$  $\pm$ 5 $^{\circ}\text{C}$  for 96 $\pm$ 2 hours and to 2 hours recovery time under normal temperature.

### 6.5 Thermal Shock

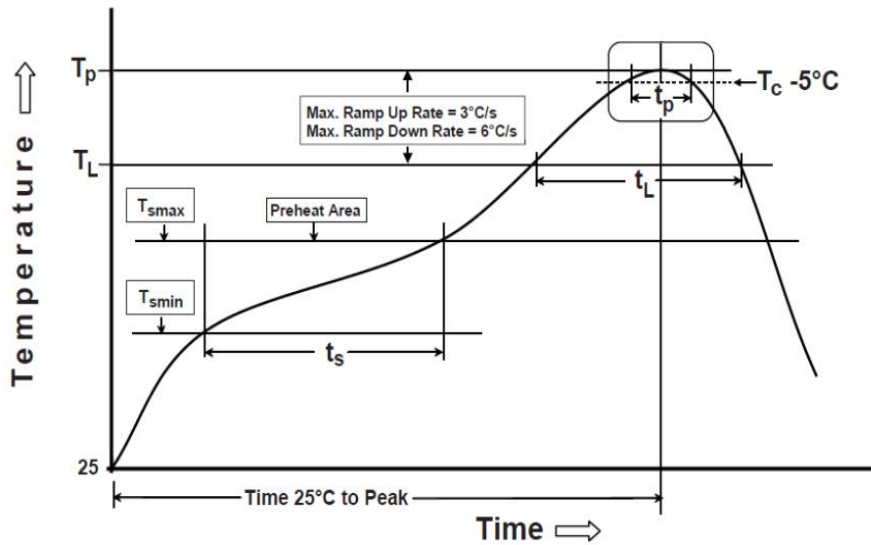
The device should also satisfy the electrical characteristics after exposed to the low temperature -40 $^{\circ}\text{C}$  and high temperature +85 $^{\circ}\text{C}$  for 30 $\pm$ 2 min each by 5 cycles and 1 to 2 hours recovery time under normal temperature.

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## 7.Notice

1. RoHS 2.0
2. MSL-1
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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