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CUSTOMER'S APPRO	VAL CHOP
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CUSTOMER'S NAME:	
CUSTOMER'S MODEL NO. :	
CUSTOMER'S PART NO. :	
DESCRIPTION:	Dielectric Filter
Semitel'S MODEL NO. :	SE8R3840B280_15.9_043
VERSION:	02
DATE:	2025/2/12

Ú¦^] æ\^åÁÓ^ Attachments: ☐ Ú¦[å* &oÁÙ]^&ãã&æãã}} Šãæ) * ÁY [} * 2025/2/12 P^à^ÆO^} * Ò¦ 8&ÁÔ @ * □ Ùæ{]|^ÁÛc°ÈÁK 2025/2/12 2025/2/12

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	FG20ÉAP[ÈTÌ HÉÁÚ^&ÈTÉÄÖæn[}*ÁÜå ÉÉÁÝã @AÖÖãr dÉÁPP^¸ÁVæni]^ã ÔãCÁGCFIÍÉÁVænij æ)





Revision Record

Version	Revision Date	Before change	After change
1	2024/6/27	VSWR in BW 1.8:1	Return Loss 15dB min.
2	2025/2/12	Input Power 3W	Max input power 100W(C組)

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- 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 ℃	dB	
3	insertion in DW	2.5max.@-40°C to +105°C	ub l	
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	
	Attenuation[Absolute value]	30 min. @ 3640~5500 MHz	dB	
8	Operation Temperature Range	-40 °C to +105 °C		
9	Max Input Power	ower 100W(C組)		
10	Measurement Semitel	44R		

[^] All Parameters are measured with 50Ω system at +25 $^{\circ}\!\mathrm{C}^{}$ if not specified.

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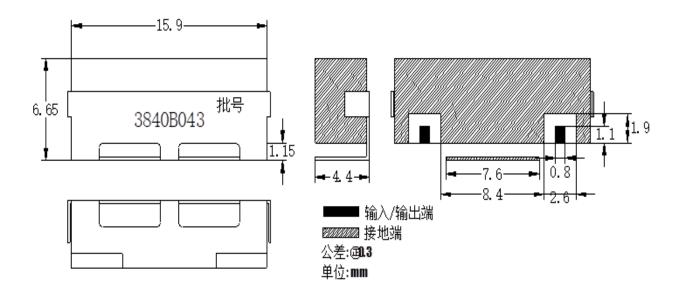




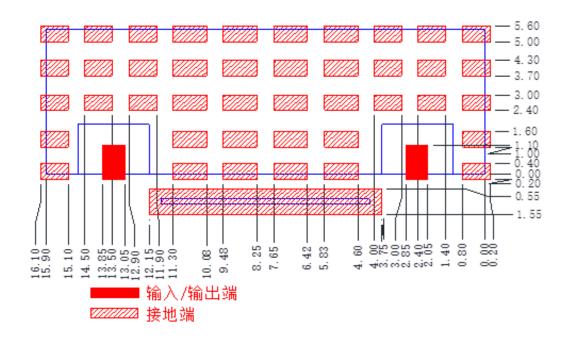
3.OUTLINE DRAWING

- 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



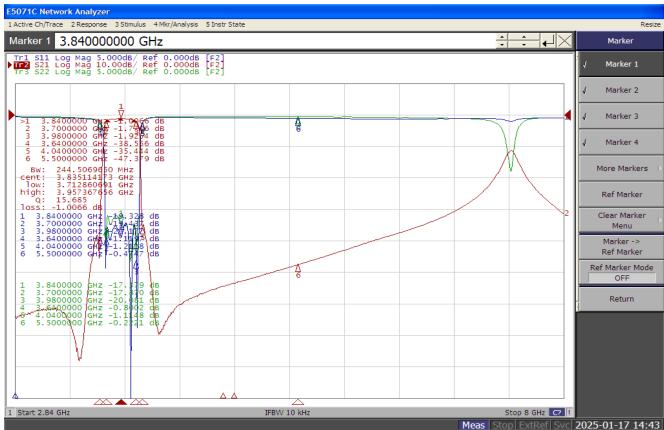
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5.FREQUENCY RESPONSE





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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

±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.

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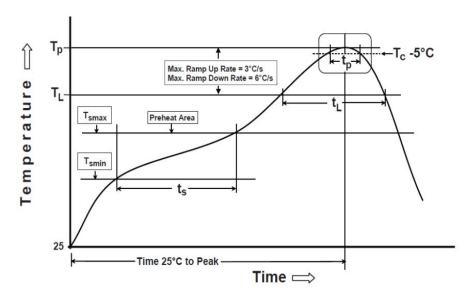




7.Notice

- 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.

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