



SPECIFICATION FOR APPROVAL

cus	TOMER'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:	DIEL	ECTRIC FILTER	
Semitel'S MODEL NO. :	SE8R4700B600_15.9_065		
VERSION:		01	
DATE:		2025/4/7	
Attachments:	Prepared By	Checked By	Approved By
□ Product Specification	_		
☐ Sample Qty. :	Hebe Deng 2025/4/7	Liang Wong 2025/4/7	Eric Chang 2025/4/7
☐ Test Data			

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Revision Record

Version	Revision Date	Before change	After change
01	2025/4/7	New Revision	

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VERSION:	01	CUSTOMER'S PART NO. :	
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FEATURES

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

SPECIFICATIONS

	ELECTRICAL SPECIFICATIONS			
NO	ITEM	SPEC	Unit	
1	Center Frequency [fo]	4700	MHz	
2	Bandwidth [BW]	fo ±300[4400~5000]	MHz	
3	nsertion in BW	1.8 max.	dB	
4	Ripple in BW	1.3 max.	dB	
5	Return Loss in BW (S11,S22)	15 min.	dB	
6	In/Out Impedance	50	Ω	
7	Attenuation [Absolute Value] —	10 min. @ DC~4360 MHz	dB	
,	——————————————————————————————————————	10 min. @ 5040~7500 MHz	dB	
8	Input Power	100 max.(设计保证)	W	
9	Operation Temperature Range	-40°C to +105°C		

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

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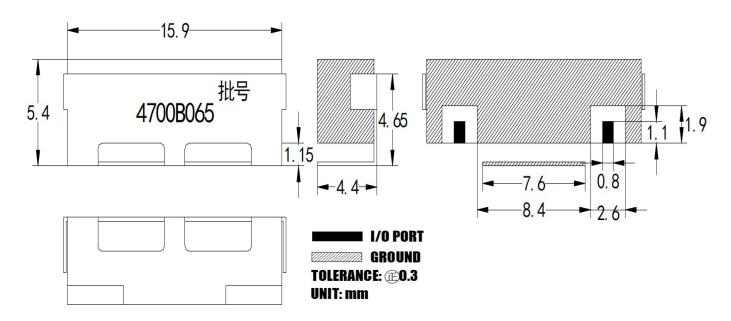




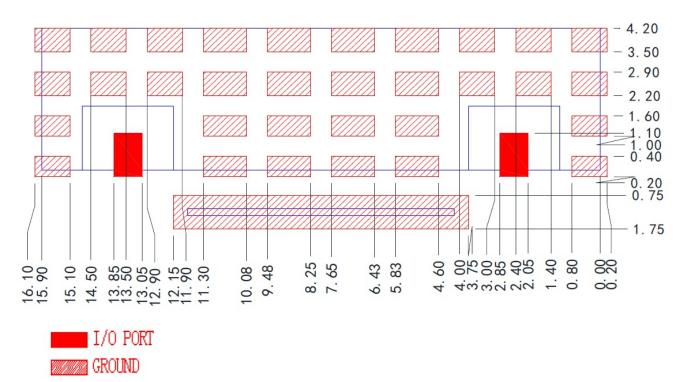
3.OUTLINE DRAWING

- 3.1. Filter drawing
- 3.2. SE8R4700B600_15.9_065

(marking showing 4700Bxxx=01~99 mean for project series code.)



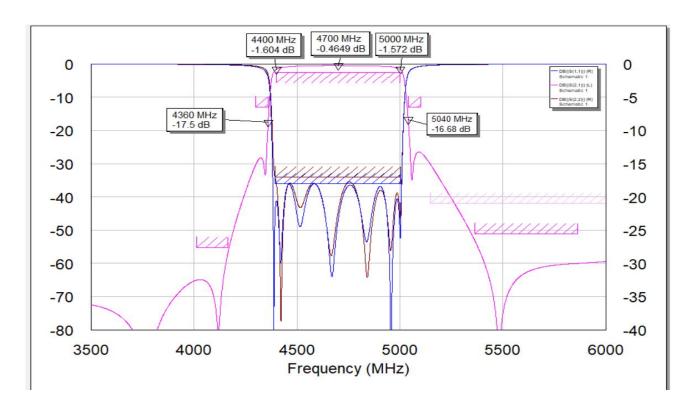
4. RECOMMENDED PC BOARD PATTERN



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5.FREQUENCY RESPONSE



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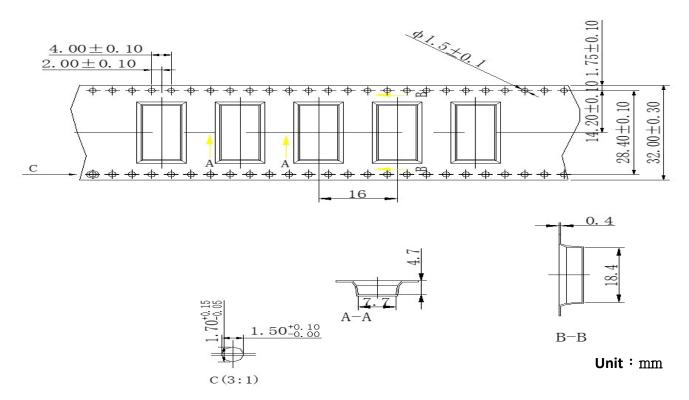




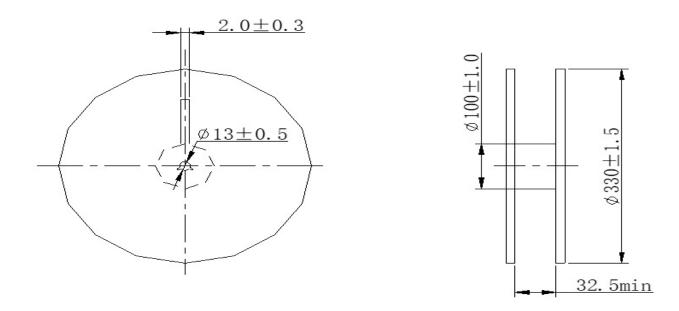
6.Tape and Reel Dimension

6.1.Quantity per reel: 500pcs

6.2. Taping Dimension



6.3. Reel Dimension



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7. Environmental Test

7.1 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.

7.2 Steady Damp Heat Test

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

 $\pm 2^{\circ}$ Cand the relative humidity 90~95% RH for 96 hours and 1~2 hours recovery time under normal condition.

7.3 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.

7.4 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 ± 2 hours and to 2 hours recovery time under normal temperature.

7.5 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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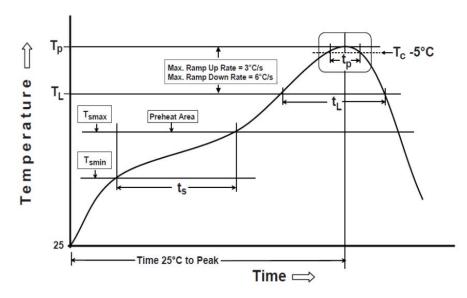




8. Notice

- 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) Time (tp)	250°C 25 seconds
RAMP-DOWN	Ramp-down rate (TP to TL)	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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