

SPECIFICATION FOR APPROVAL

<p>CUSTOMER'S APPROVAL CHOP</p> <p>Approval's condition: _____</p> <p>Approved date: _____</p>
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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: _____
Dielectric Filter

Semitel'S MODEL NO. : _____
SE8R55375A775_9.36_Xxx

VERSION: _____
B

DATE: _____
2022/12/21

- Attachments:**
- Product Specification
 - Sample Qty. :
 - Test Data

Prepared By	Checked By	Approved By
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Revision Record

Version	Revision Date	Revision For Items	Reason For Revision
A	2022/12/19	New Revision	-
B	2022/12/21	Operating temperature range and storage temperature range changed from -40~+85°C to -40~+115°C MAX	Customer Request

Semitel'S MODEL NO. :	SE8R55375A775_9.36_Xxx	CUSTOMER'S MODEL NO. :	
VERSION:	B	CUSTOMER'S PART NO. :	
DATE:	2022/12/21		

1.FEATURES

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

2.SPECIFICATIONS

NO.	ITEM	SPEC	UNIT
1	Center Frequency [fo]	5537.5	MHz
2	Bandwidth [BW]	fo±387.5 【5150~5925】	MHz
3	Insertion Loss in BW	2.0 max.@5150~5895 MHz	dB
		3.0 max.@5895~5925 MHz	
4	VSWR in BW	2.0 max	ratio
5	Attenuation	55 min. @10~2500MHz 40 min. @2500~4000MHz 50 min. @6095~7125MHz TBD. @10360~11610MHz TBD. @15540~17415MHz	dB
6	Impedance	50	Ω

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

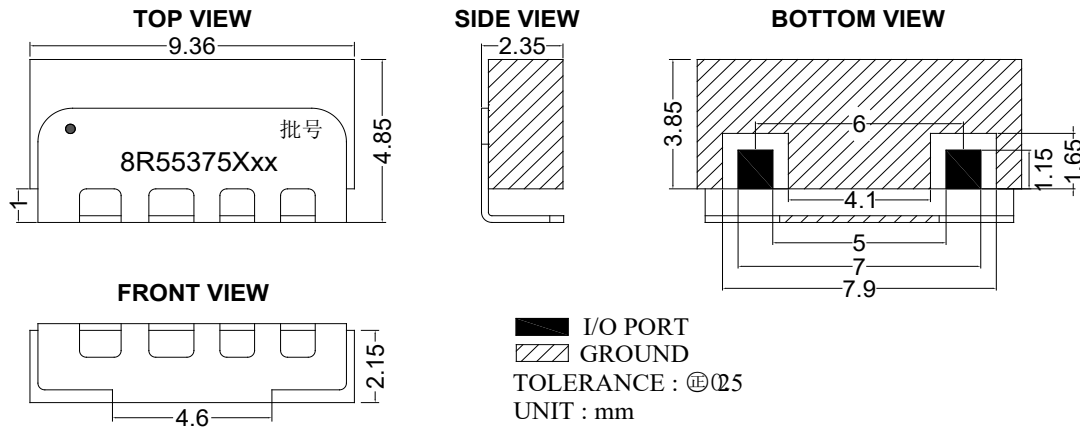
Semitel'S MODEL NO. :	SE8R55375A775_9.36_Xxx	CUSTOMER'S MODEL NO. :	
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3.OUTLINE DRAWING

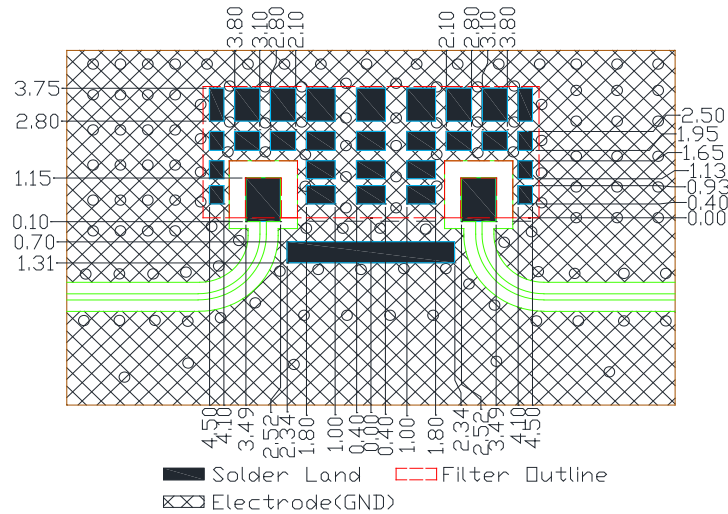
3.1. Filter drawing

3.2. SE8R55375A775_9.36_Xxx

marking showing 8R55375Xxx= A~Z, xx=01~99 mean for project series code.)



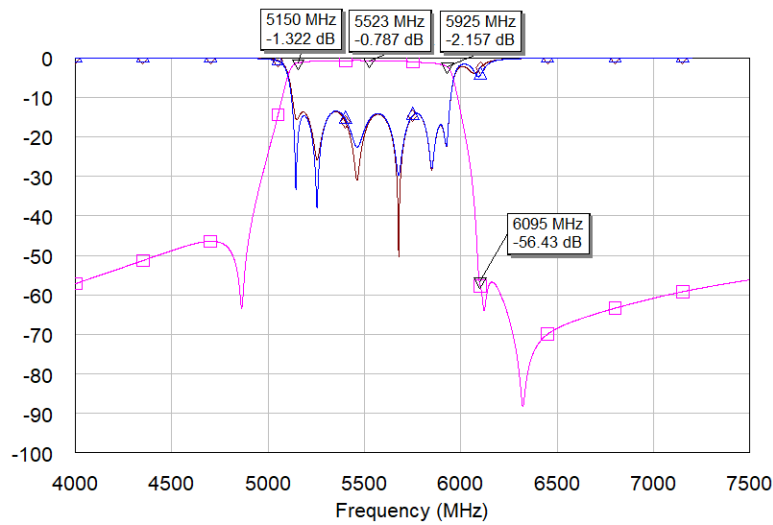
4.RECOMMENDED PC BOARD PATTERN



- The recommendation of steel mesh thickness: 0.08mm.
- The recommendation of soldering paste: M705-S101HF(VM)-S4.

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5.FREQUENCY RESPONSE

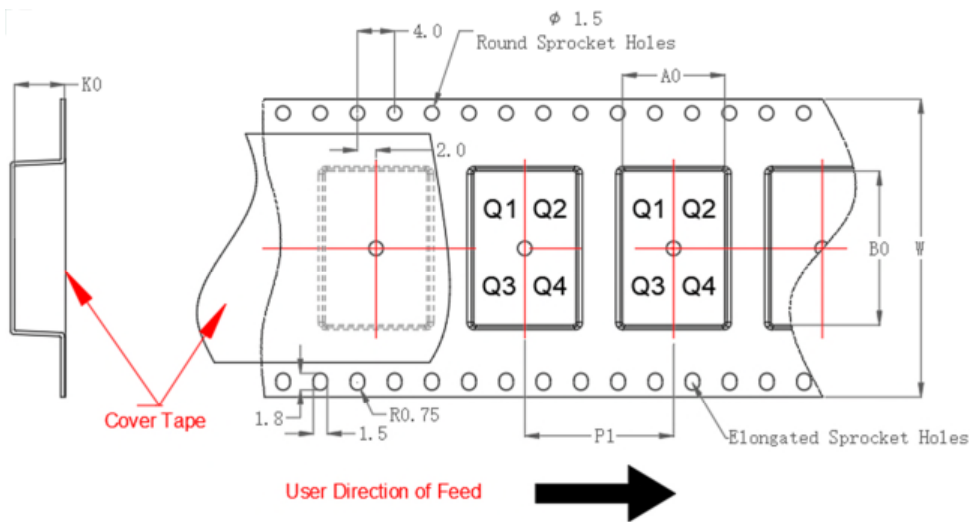
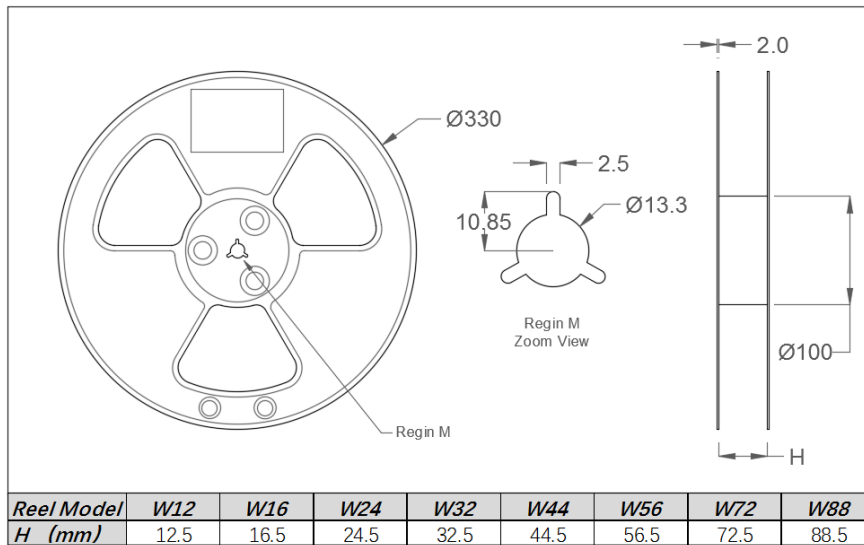


6.ABSOLUTE MAXIMUM RATINGS

Operation Temperature Range	-40~+115°C MAX
Storage Temperature Range	-40~+115°C MAX
Input Power	2 W(Average)/20 W(peak)

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7.PACKAGE INFORMATION



Package Dimension (mm)

Device	Reel No.	W	A0	B0	K0	P1	Mark Quadrant
SE8R55375A775_9.36_Xxx(8R55375Xxx)	W24	24	5.3	9.8	2.8	12	Q3

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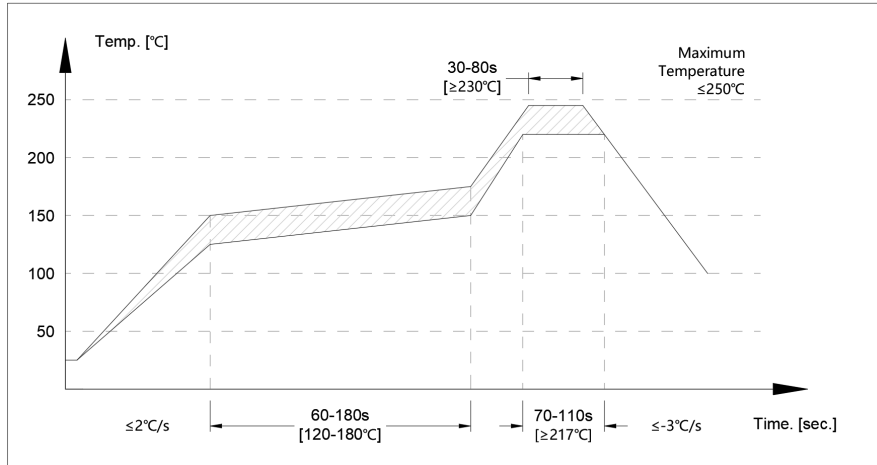
8.NOTES

1.Reflow condition

1.1 Pb-Free reflow condition is shown in the graph below.

1.2 SAC305 solder paste is recommended.

1.3 The temperature shown in the graph is the surface temperature of the filter body.



- Soldering Iron is prohibited for installation or repairing of the filter.
- Use the hot gas repair station for removing and replacing the filter, do not exceed 250°C (filter surface temperature) during rework.

2.This product is RoHS 2.0 compliant.

3.Moisture Sensitivity Level: MSL-1.

4.The dielectric ceramic filter belongs to brittle products, it is necessary to avoid extreme heat and cold.

5.The solder area under the filter should be divided into smaller patches with narrow strips of resist area. This is to help the evacuation of the gasses generated from the solder paste during reflow process.

6.The filter will be tested on EVB with 50Ω impedance, the performance should completely satisfy the specification requirements.

7.When the surface-mount filter is installed in metal cavity, to achieve best performance of the filter, it is recommended that the filter top is in contact with the metal housing with conductive spring or conductive sponge.

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