

1.FEATURES

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

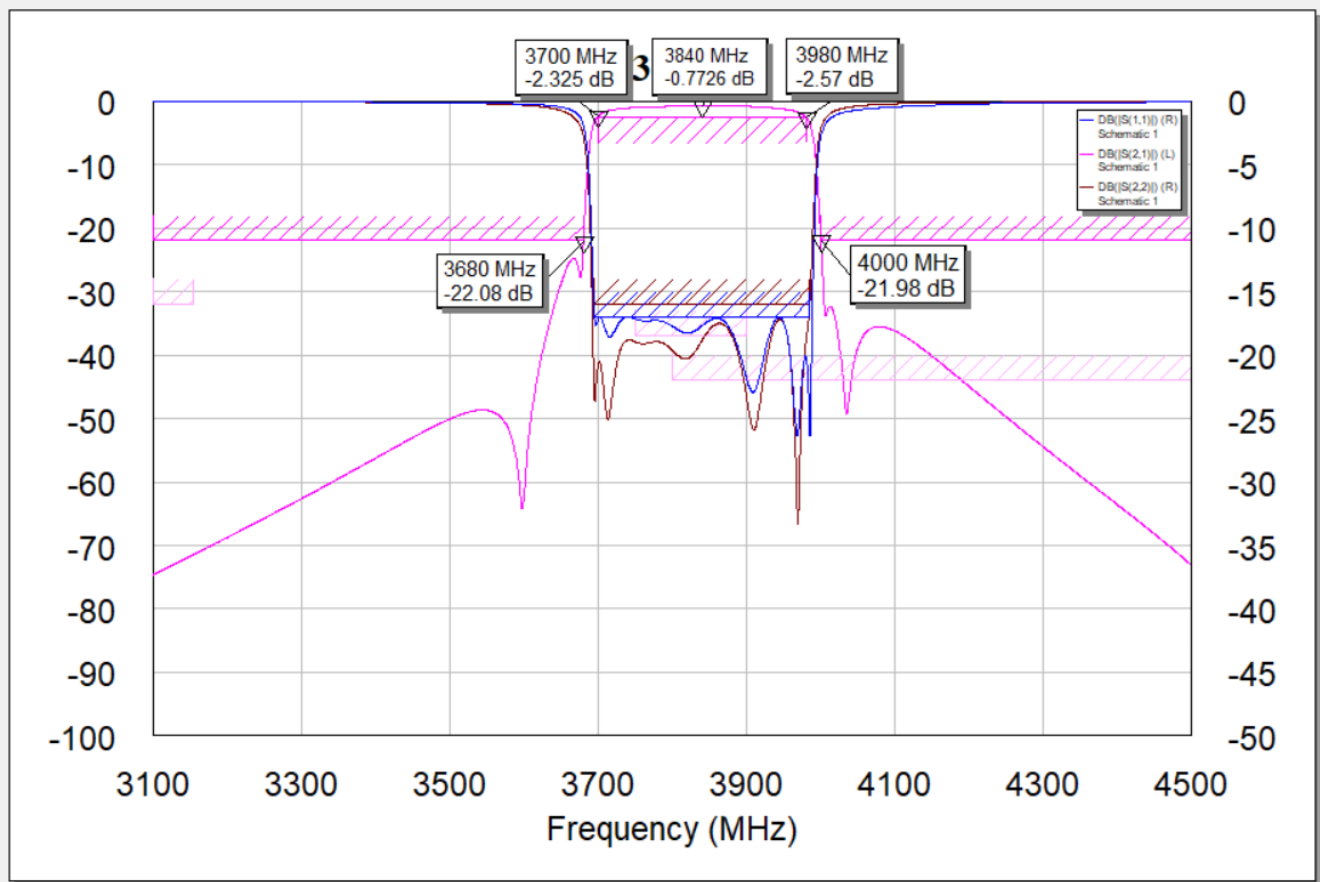
2.SPECIFICATIONS

| 【 ELECTRICAL SPECIFICATIONS 】 | | | |
|-------------------------------|-------------------------------|----------------------------|------|
| NO. | ITEM | SPEC | UNIT |
| 1 | Center Frequency [fo] | 3840 | MHz |
| 2 | Bandwidth [BW] | fo±140[3700~3980] | MHz |
| 3 | Insertion Loss in BW | 2.0max. @25℃ | dB |
| | | 2.5 max. @-40℃~+105℃ | |
| 4 | Ripple in BW | 2.5 max. | dB |
| 5 | Return Loss in BW (S11, S22) | 14 min. | dB |
| 6 | Attenuation[Absolute Value] | 10 dB min. @ 10~3680 MHz | dB |
| | | 10 dB min. @ 4000~6000 MHz | |
| 7 | In/Out Impedance | 50 | Ω |
| 8 | [Operation Temperature Range] | -40℃ to +105℃ | |

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

| | | | |
|-----------------------|-----------------------|------------------------|--|
| Semitel'S MODEL NO. : | SE8R3840C280_25.7_040 | CUSTOMER'S MODEL NO. : | |
| VERSION: | B | CUSTOMER'S PART NO. : | |
| DATE: | 2024/8/2 | | |

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

$\pm 5^{\circ}\text{C}$ for 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

$40^{\circ}\text{C} \pm 5^{\circ}\text{C}$ for 96 ± 2 hours and to 2 hours recovery time under normal temperature.

6.5 Thermal Shock

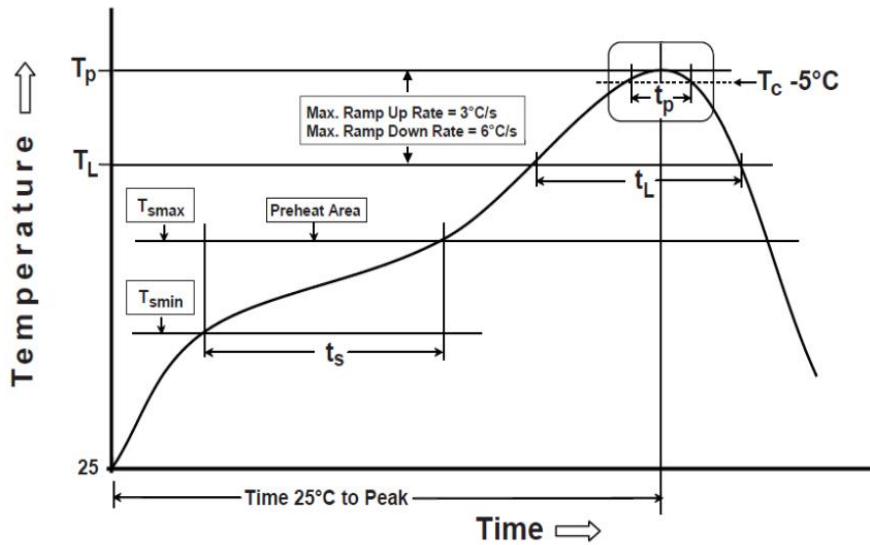
The device should also satisfy the electrical characteristics after exposed to the low temperature -40°C and high temperature $+85^{\circ}\text{C}$ for 30 ± 2 min each by 5 cycles and 1 to 2 hours recovery time under normal temperature.

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6. 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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