



SPECIFICATION

PN: AW23450DCC6CJCWW

深圳市晶科鑫实业有限公司

SHENZHEN CRYSTAL TECHNOLOGY INDUSTRIAL CO., LTD.

| VER | DESIGNED | CHECKED | APPROVED |
|-----|----------|---------|----------|
| A1 | 胡丹斌 | 李相同 | 刘忠亮 |

CUSTOMER APPROVAL

| | | | |
|--|-----------|------------------------|------|
| SPECIFICATION : | | AW / DCC6C/ 2345.00MHz | |
| SJK PN. : | | AW23450DCC6CJCWW | |
| CUSTOMER PN. : | | | |
| CHECKED 1 | CHECKED 2 | APPROVED | DATE |
| | | | |
| Result: <input type="checkbox"/> PASS <input type="checkbox"/> FAIL <input type="checkbox"/> OTHER | | | |

SAW Filter

AW DCC6C Series



Application

- Low-loss SAW component
- Low amplitude ripple
- Sharp rejections at both out-bands
- Usable passband 50.0MHz

Performance

- Ceramic Package for Surface Mounted Technology (SMT)
- RoHS compatible
- Package size 3.00x3.00x1.25mm³
- Package Code DCC6C
- Electrostatic Sensitive Device(ESD)

Performance

1-1.Maximum Rating

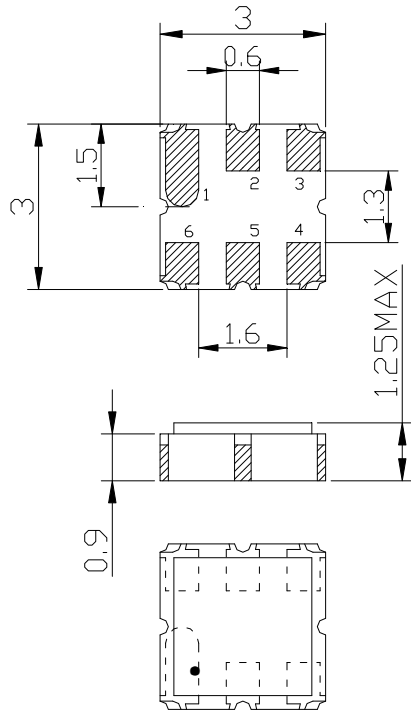
| Item | | Value | Unit |
|-----------------------|------------------|-----------|------|
| DC Voltage | V _{DC} | 5 | V |
| Operation Temperature | T | -40 ~ +85 | °C |
| Storage Temperature | T _{stg} | -40 ~ +85 | °C |
| RF Power Dissipation | P | 20 | dBm |

1-2.Electronic Characteristics

Test Temperature: 25°C ± 2°C / Terminating source impedance: 50Ω / Terminating load impedance: 50Ω

| Item | | Minimum | Typical | Maximum | Unit |
|--|----------------|---------|---------|---------|------|
| Center Frequency | f _c | | 2345.00 | | MHz |
| Insertion Loss(min) | IL | | 1.7 | 2.3 | dB |
| Insertion Loss 2320.00-2370.00MHz | IL | | 2.3 | 3.0 | dB |
| Amplitude Ripple (p-p) 2320.00-2370.00MHz | Δa | | 0.7 | 2.0 | dB |
| Group Delay Ripple 2320.00-2370.00MHz | GDR | | 10.0 | 30.0 | ns |
| Absolute Attenuation | a | | | | |
| DC - 2170.00 MHz | | 30.0 | 35.0 | | dB |
| 2170.00 -2190.00 MHz | | 30.0 | 45.0 | | dB |
| 2190.00 -2300.00 MHz | | 4.0 | 8.0 | | dB |
| 2390.00 -2460.00 MHz | | 4.0 | 8.0 | | dB |
| 2460.00 -2585.00 MHz | | 30.0 | 40.0 | | dB |
| 2585.00 -3000.00 MHz | | 25.0 | 35.0 | | dB |
| Input VSWR 2320.00-2370.00MHz | | | 1.6:1 | 2.0:1 | / |
| Output VSWR 2320.00-2370.00MHz | | | 1.6:1 | 2.0:1 | / |

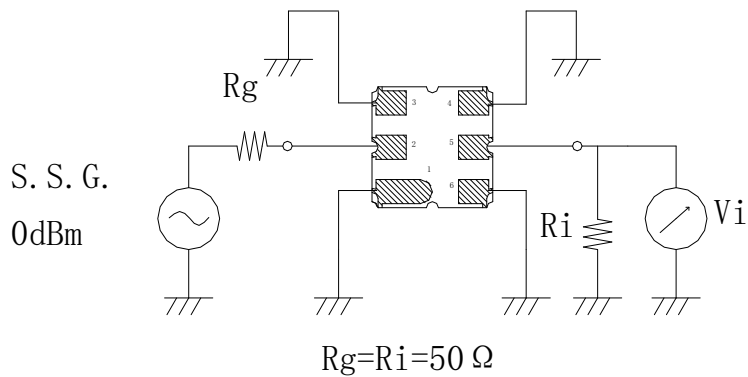
Package Dimension (DCC6C)



Pin Configuration

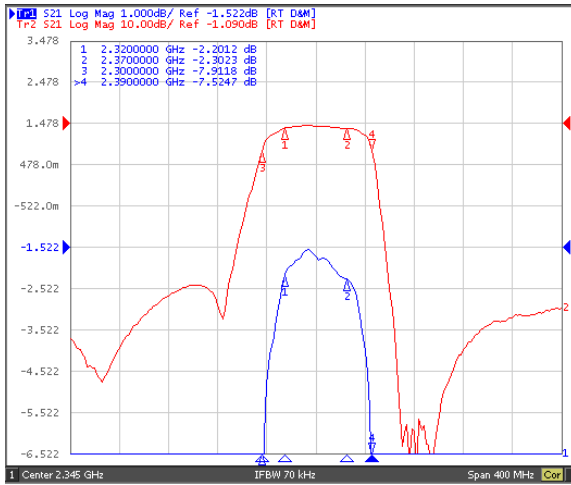
| Pin No. | Description |
|---------|-------------|
| 2 | Input |
| 5 | Output |
| 1,3,4,6 | Ground |

Test Circuit

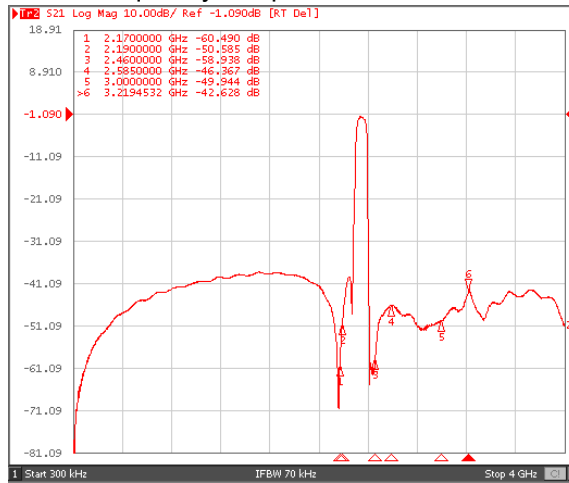


Frequency Characteristics

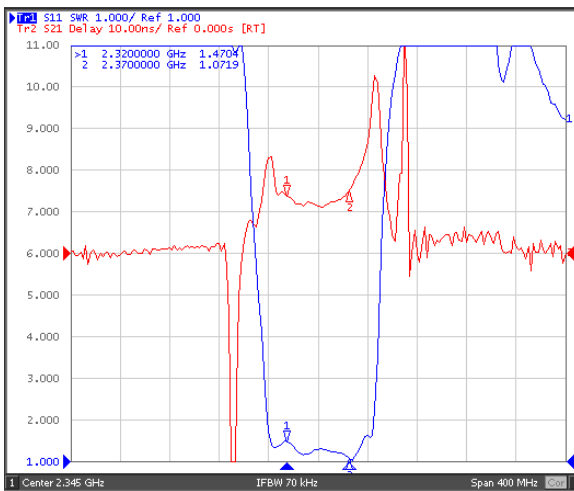
Frequency Response



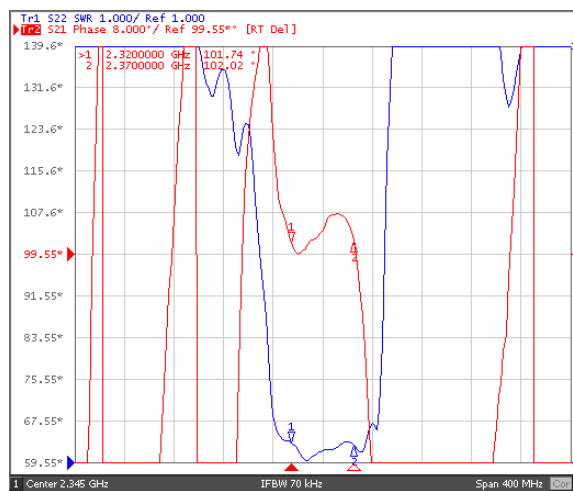
Frequency Response (wideband)



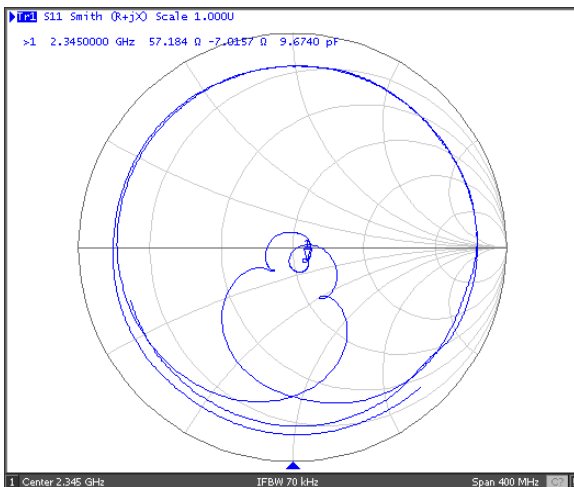
Delay Ripple & S11 VSWR



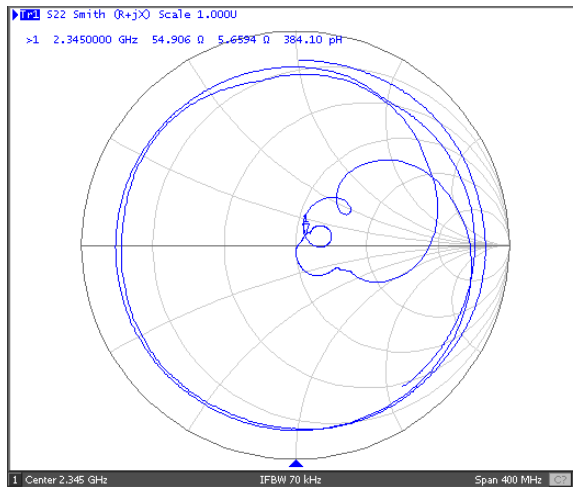
Phase Linearity & S22 VSWR



S11 Smith Chart

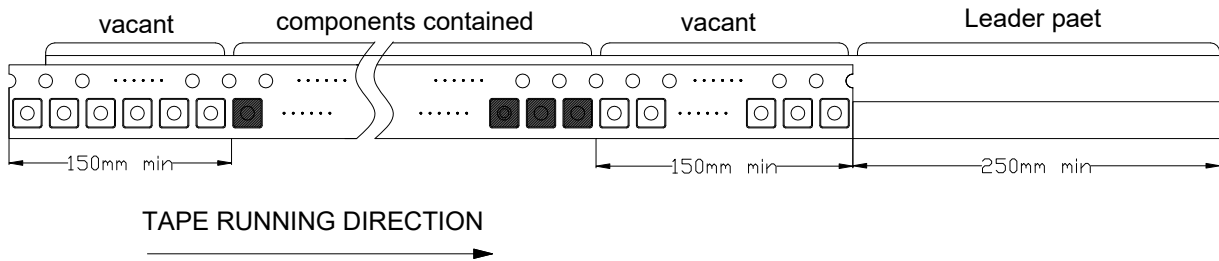


S22 Smith Chart

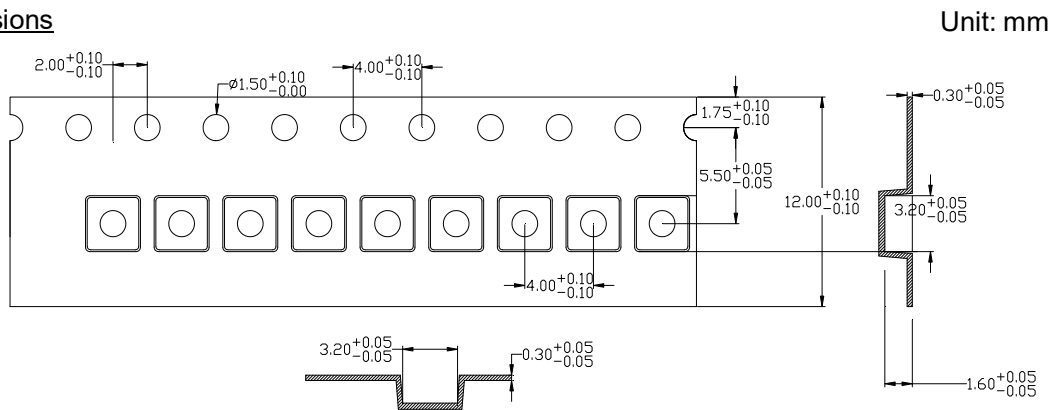


Packing Information

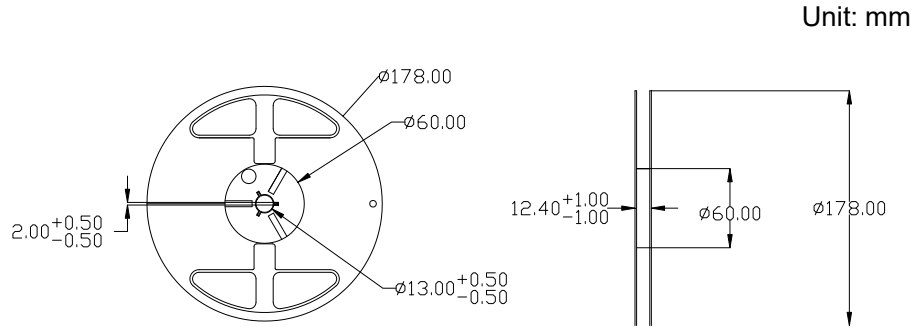
Carrier Tape



Reel Dimensions



Outer Packing



Notes

1. As a result of the particularity of inner structure of SAW products, it easy to be breakdown by electrostatic, so we should pay attention to ESD protect in the test.
2. Static voltage between signal load and ground may cause deterioration and destruction of the component. Please avoid static voltage.
3. Ultrasonic cleaning may cause deterioration and destruction of the component. Please avoid ultrasonic cleaning.
4. Only leads of component may be soldered. Please avoid soldering another part of component.
5. There is a close relationship between the device's performance and matching network. The specifications of this device are based on the test circuit shown above. L and C values may change depending on board layout. Values shown are intended as a guide only.

REVISION RECORD (SJK-AW23450DCC6CJ1)

| Rev | Revise contents | Reason | Reviser | Checked | Approved |
|-----|------------------|--------|---------|---------|----------|
| A1 | Initial released | -- | 贺丹斌 | 李相同 | 刘惠光 |
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