



APPROVAL SHEET

| Approval Specification | Customer's Approval Certificate |
|-----------------------------|---|
| TO: | Checked & Approved by: |
| Part No.: | Date: |
| Customer's Part No.: | Please return this copy as a certification of your approval |

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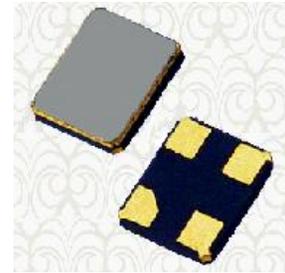


| | |
|------------|-----------|
| Part No. : | SFR370K |
| Pages : | 7 |
| Date : | 2015/4/16 |
| Revision : | 1.0 |

| | |
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| Prepared by: | |
| Checked by: | |
| Approved by: | |

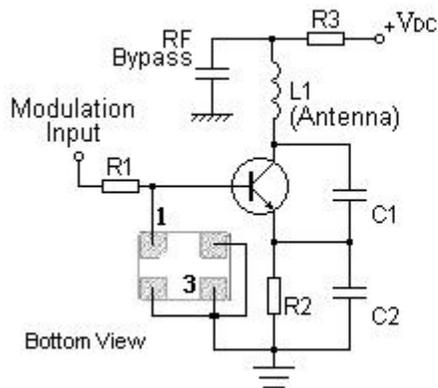
Features

- 1-port Resonator
- Ceramic Package for **Surface Mounted Technology (SMT)**
- **RoHS** compatible
- Package size 3.20x2.50x0.70mm³
- **Electrostatic Sensitive Device(ESD)**

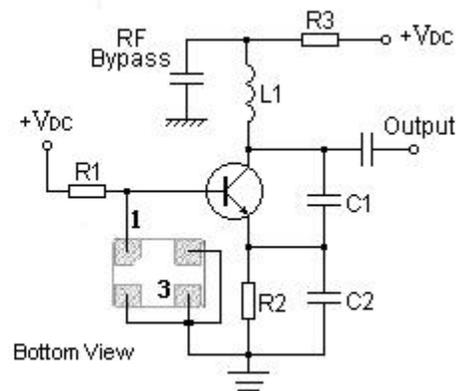


Application

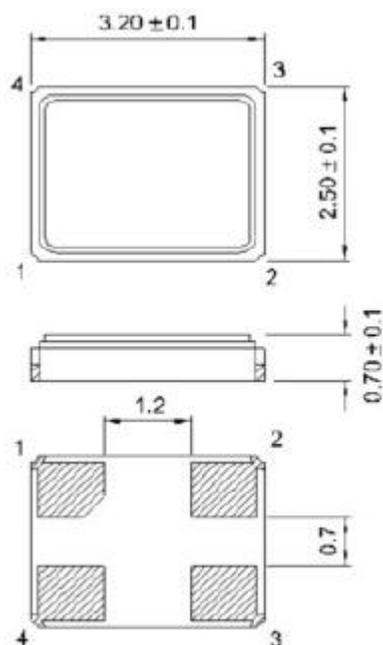
Typical Low-Power Transmitter Application



Typical Local Oscillator Application



Package Dimensions (DCC4C)



Pin Configuration

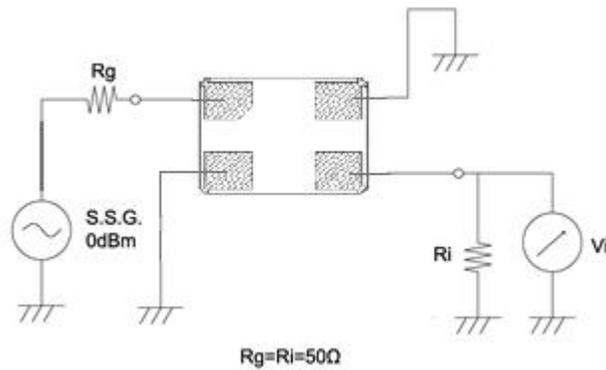
| | |
|-----|---------------|
| 1 | Input/ Output |
| 3 | Output/ Input |
| 2,4 | Ground |

Marki

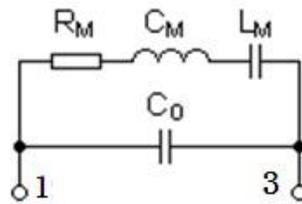


| | |
|-------------|---------------|
| SF | Trademark |
| R | SAW Resonator |
| 370K | Part number |

Test Circuit



Equivalent LC Model



Performance

Maximum Rating

| Item | | Value | Unit |
|-----------------------|-----------|-----------|-------------|
| DC Voltage | V_{DC} | ± 30 | V |
| Operation Temperature | T | -40 ~ +85 | $^{\circ}C$ |
| Storage Temperature | T_{stg} | -40 ~ +85 | $^{\circ}C$ |
| RF Power Dissipation | P | 15 | dBm |

Electronic Characteristics

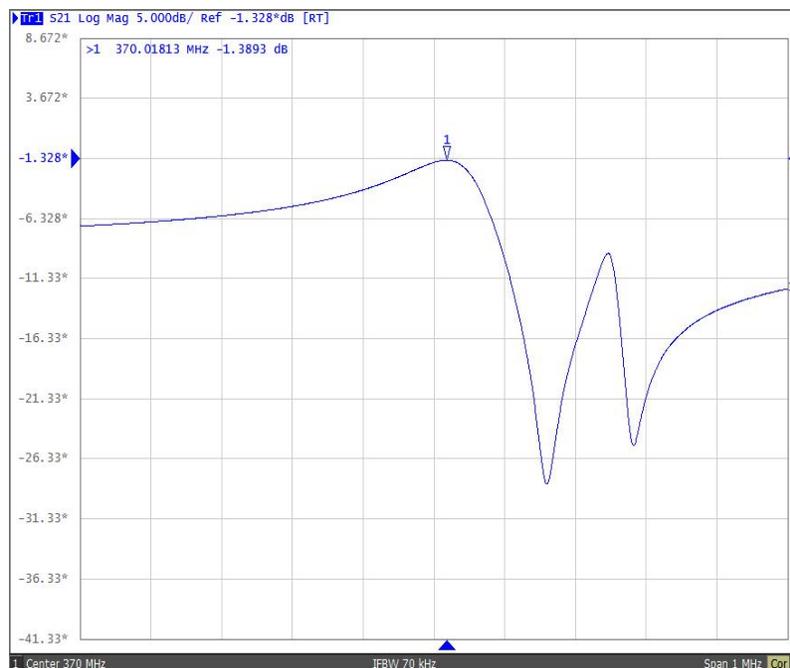
Test Temperature: 25°C±2°C

Terminating source impedance: 50Ω

Terminating load impedance: 50Ω

| Item | | Minimum | Typical | Maximum | Unit |
|---|--------------------------------------|--------------|---------|---------|--------|
| Center Frequency | Absolute Frequency | f_c | 370.00 | | MHz |
| | Tolerance from 370.00MHz | Δf_c | ±75 | | KHz |
| Insertion Loss(min) | | IL | 1.4 | 2.0 | dB |
| Quality Factor | Unloaded Q | Q_U | 23606 | | |
| | 50Ω Loaded Q | Q_L | 3173 | | |
| Frequency Aging | Absolute Value during the First Year | $ f_A $ | ≤10 | | ppm/yr |
| DC Insulation Resistance between Any Two Pins | | | 1.0 | | MΩ |
| RF Equivalent RLC Model | Motional Resistance | R_M | 15.5 | 18.0 | Ω |
| | Motional Inductance | L_M | 157.8 | | μH |
| | Motional Capacitance | C_M | 1.31 | | fF |
| | Static Capacitance | C_0 | 1.71 | 2.01 | 2.3 |

Frequency Response



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.