

1. Scope.

This specification applied to SV1212-385R5V50M

2. Ratings

| | ITEM | SYMBOL | RATING | UNIT |
|---|-----------------------|--------|------------|------|
| 1 | Supply Voltage | Vcc | 5±0.25 | V |
| 2 | Tuning Voltage | Vt | 0.5 ~ 5.0 | V |
| 3 | Operating Temperature | Top | -40 ~ +85 | °C |
| 4 | Storage Temperature | Tstg | -50 ~ +100 | °C |
| 5 | Storage Humidity | Hstg | 0 ~ 95% | % |

3. Electrical Characteristics

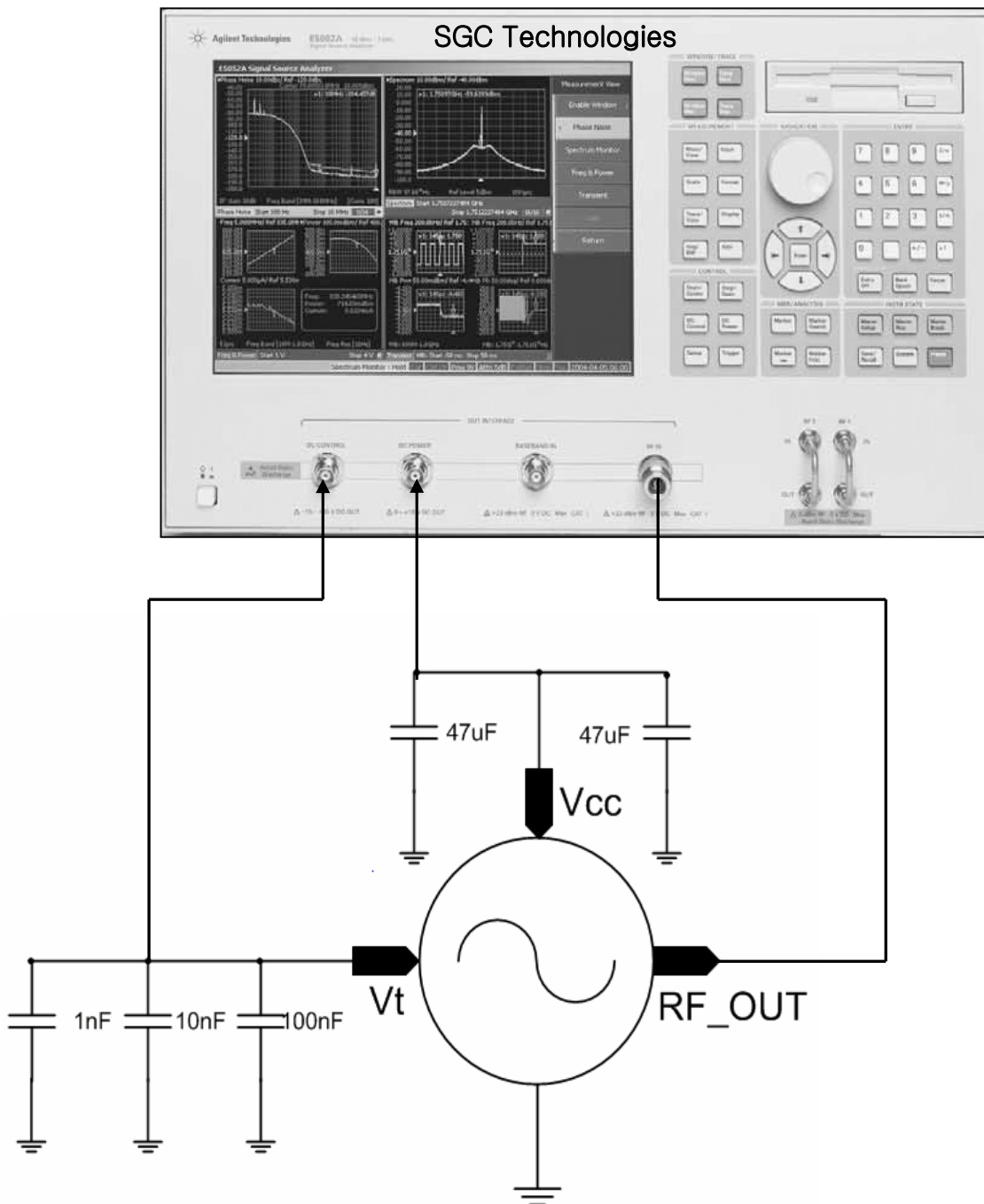
(Over output frequency range, T_A -40 to +85 °C, Vcc=5.0V, Output load 50Ω, Unless otherwise stated)

| ITEM | SPEC. | | | UNIT | Test conditions |
|--------------------------|-------|------|-----|--------|--|
| | Min | Typ | Max | | |
| Supply Voltage | | 5 | | V | DC Voltage |
| Frequency | | | 360 | MHz | Vcc = 5.0V, Vt = 0.5V |
| | 410 | | | | Vcc = 5.0V, Vt = 5.0V |
| Current | | 15 | 20 | mA | Vcc = 5.0V, Vt = 2.75V |
| Output Level | 4.5 | 7.25 | 10 | dBm | Vcc = 5.0V, Vt = 0.5V ~ 5.0V |
| Phase Noise (C/N) | | 110 | 105 | dBc/Hz | 10kHz offset, Vcc=5.0V, Vt =2.75V |
| | | 130 | 125 | dBc/Hz | 100kHz offset, Vcc=5.0V, Vt =2.75V |
| 2 nd Harmonic | | 14 | -5 | dBc | Vcc = 5.0V, Vt = 2.75V |
| Tuning Sensitivity | 15 | 23 | 30 | MHz/V | Vt = 0.5V ~ 5.0V |
| Pulling | | <4 | | MHz | Vcc = 5.0V, Vt = 2.75V VSWR = 1.5 : 1 All phase |
| Pushing | | < 2 | | MHz | Vcc = 5.0V ±0.25V, Vt= 2.75V |
| Input Capacitance | | 100 | | pF | |

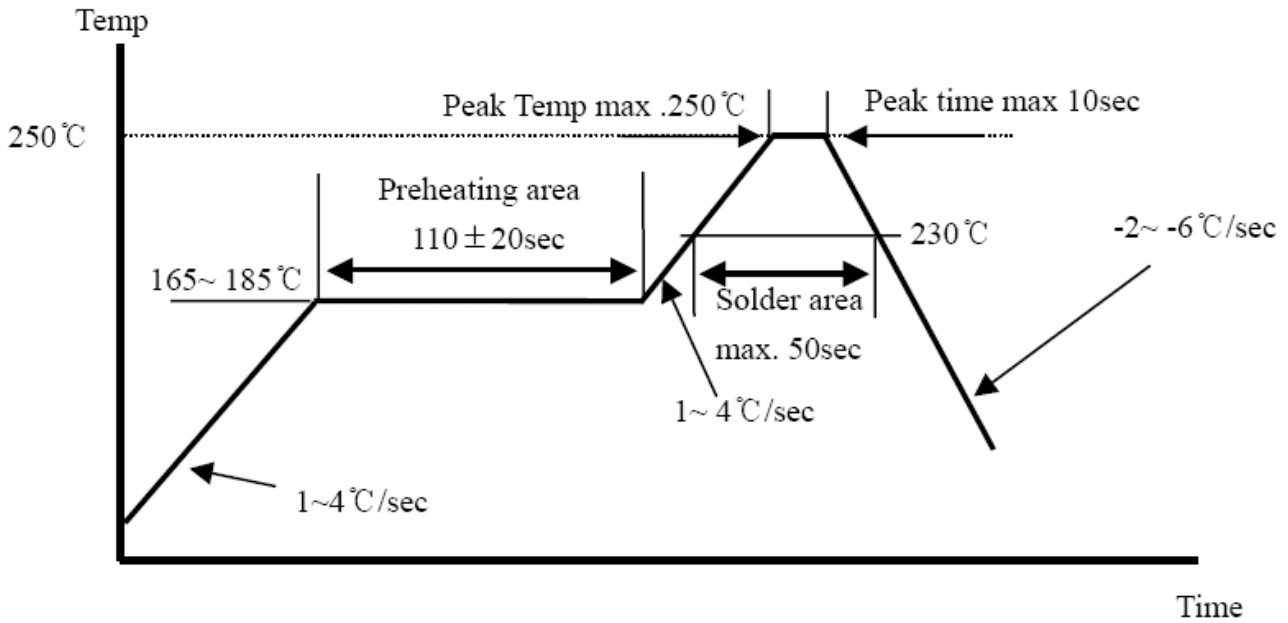
Testing temperature at 25±5 °C

4. Measurement Circuit

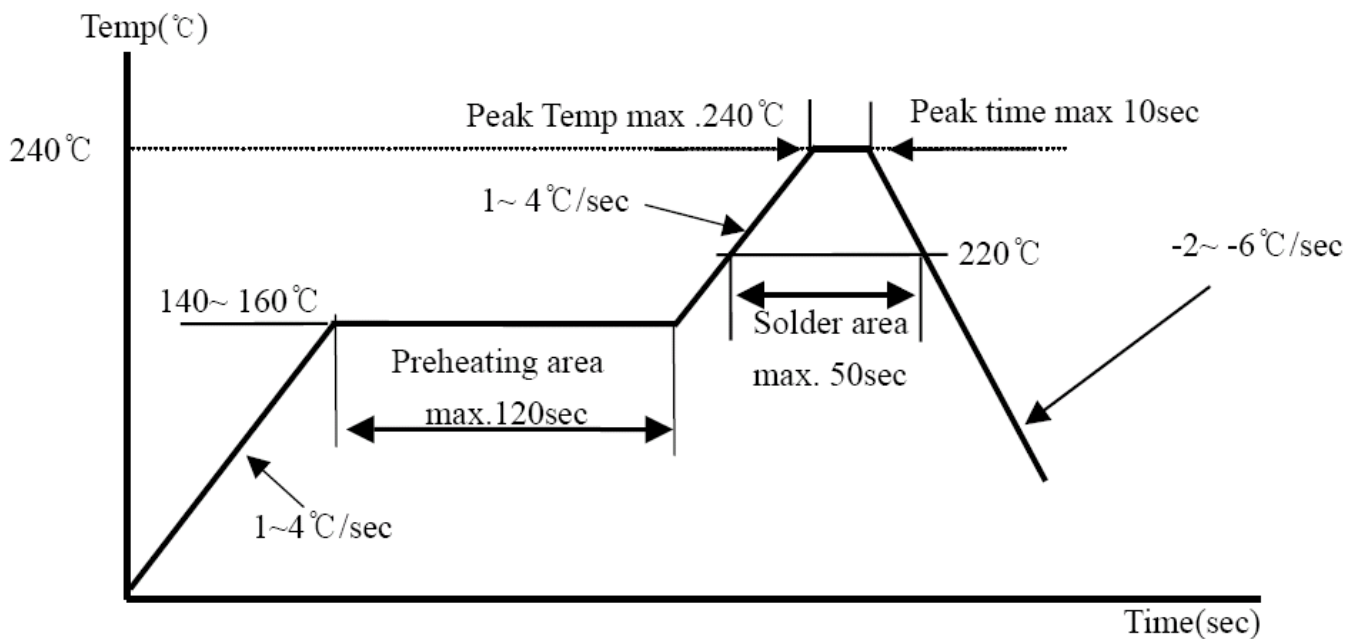
Test Equipment : Agilent E5052A or 4352B



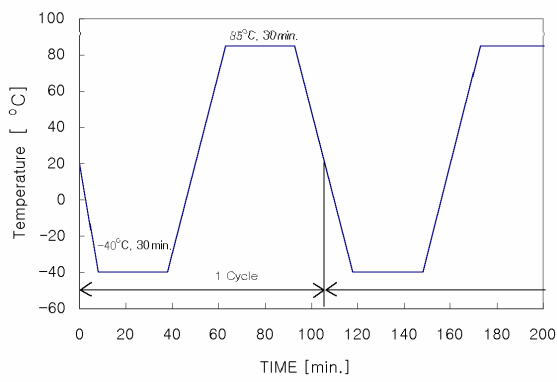
5. Recommendable Reflow Soldering Profile (Pb - Free)



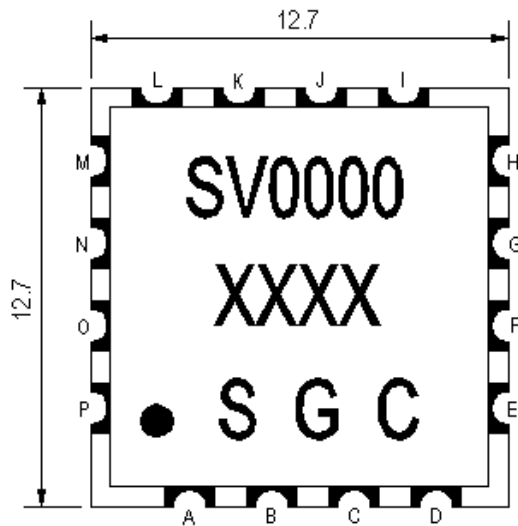
6. Recommendable Reflow Soldering Profile (Sn : Pb = 63:37))



7. Environmental Requirement

| No | ITEM | Condition and Method | Evaluation |
|----|----------------------------------|--|---|
| 1 | High Temperature Test | Temp. : +85°C ± 2°C Time : 96hrs ± 2hrs When measured after 2 to 24 hours in normal condition | It shall be satisfied electrical requirement, and not be mechanical damage. |
| 2 | Low Temperature Test | Temp. : -40°C ± 2°C Time : 96hrs ± 2hrs When measured after 2 to 24 hours in normal condition | |
| 3 | High Temperature & High Humidity | Temp. : +60°C ± 2°C Humi. : 90~95%RH Time : 72hrs ± 2hrs When measured after 2 to 24 hours in normal condition | |
| 4 | Temperature Cycle |  <p>-40°C 30min., +85°C 30min., 5 Cycle When measured after 2 to 24 hours in normal condition</p> | |
| 5 | Vibration Test | Freq. : 10~30Hz, Amplitude : 1.52mm Freq. : 30~60Hz, 6G Cycle : 20 min. / Cycle Position : Three perpendicular planes. | |
| 6 | Shock Test | Height : 75cm Times : 3 Method : Dropped onto wood surface | |

8. Mechanical Characteristics



TITLE OF TERMINAL

A,C,D,E,F,G,H,I,K,L,M,O,P : Ground

N : Power Supply

J : Output Power

B : Control Votage

* Unit : mm

