1. Scope.

This specification applied to SV1212-550R5V50M

2. Ratings

	ITEM	SYMBOL	RATING	UNIT
1	Supply Voltage	Vcc	5±0.25	V
2	Tuning Voltage	Vt	0.0~5.0	V
3	Operating Temperature	Top	-40 ~ +85	℃
4	Storage Temperature	Tstg	-50 ~ +100	℃
5	Storage Humidity	Hstg	0 ~ 95%	%

3. Electrical Characteristics

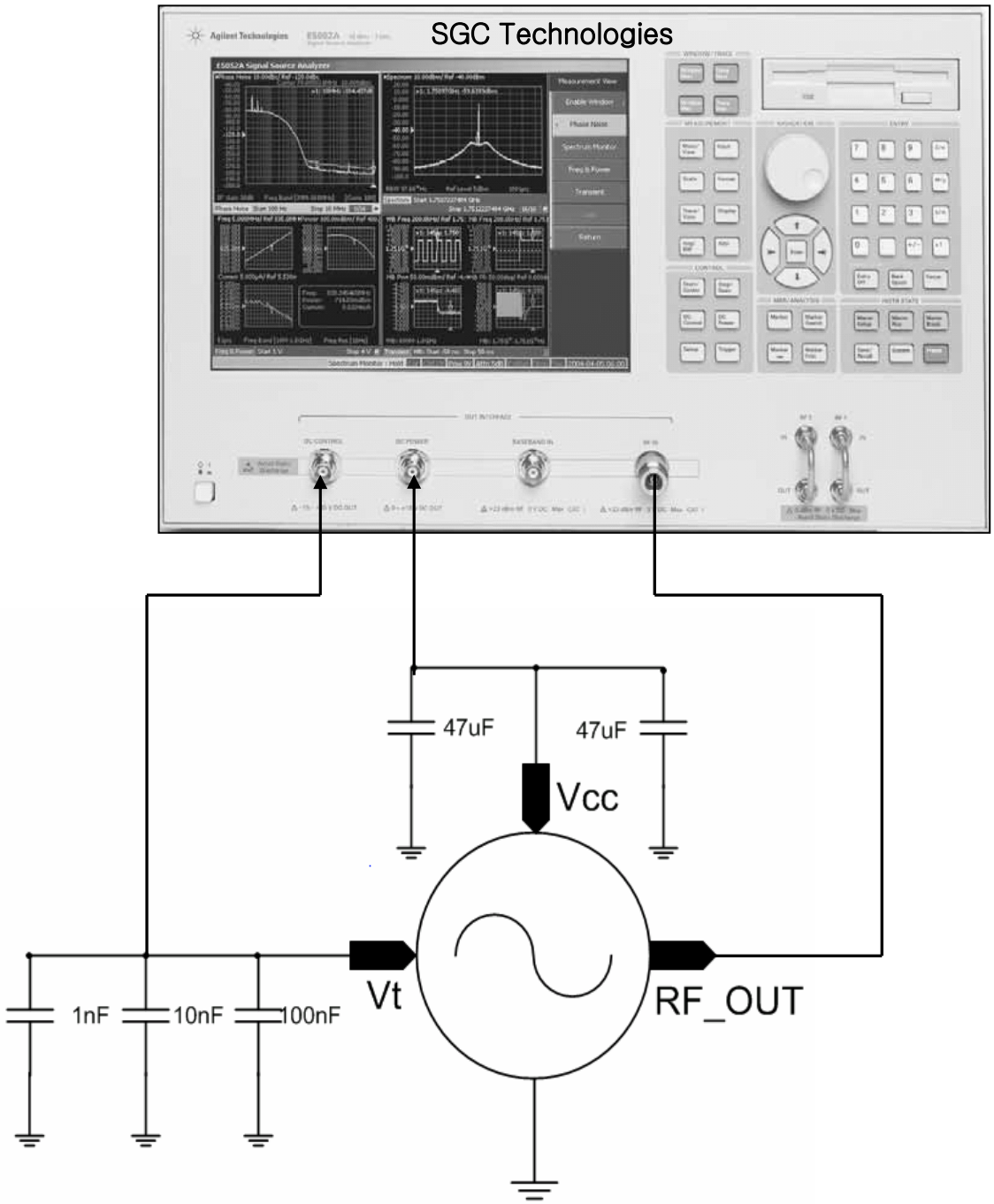
(Over output frequency range, T_A -40 to +85℃, Vcc=5.0V, Output load 50Ω, Unless otherwise stated)

PARAMETER	SPEC.			UNIT	Test conditions
	Min	Typ	Max		
Supply Voltage		5		V	DC Voltage
Oscillator Frequency Range			525	MHz	Vcc = 5.0V, Vt =0.0V
	575				Vcc = 5.0V, Vt =5.0V
Supply Current			20	mA	Vcc = 5.0V, Vt =2.5V
Output Power	-3	0	3	dBm	Vcc =5.0V, Vt = 0.0V ~5.0V
SSB Phase Noise			105	dBc/Hz	10㎑ offset, Vcc=5.0V, Vt =2.5V
Harmonic Suppression(2^{nd})			-10	dBc	Vcc =5.0V, Vt =2.5V
Tuning Sensitivity	15			MHz/V	Vt =0.0V~5.0V
Frequency Pulling	< 5			MHz	Vcc = 5.0V, Vt =2.5V VSWR = 1.5 : 1 All phase
Frequency Pushing	< 2			MHz	Vcc = 5.0V ±0.25V, Vt=2.5V
Input Capacitance	47			pF	

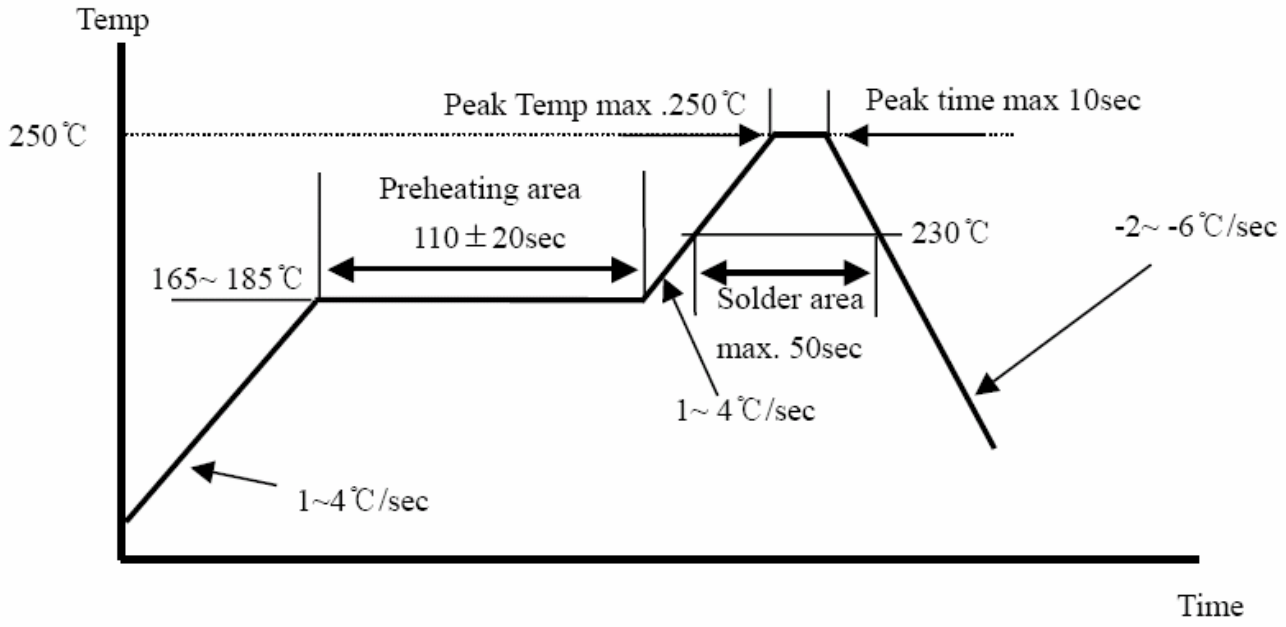
Testing temperature at 25±5℃

4. Measurement Circuit

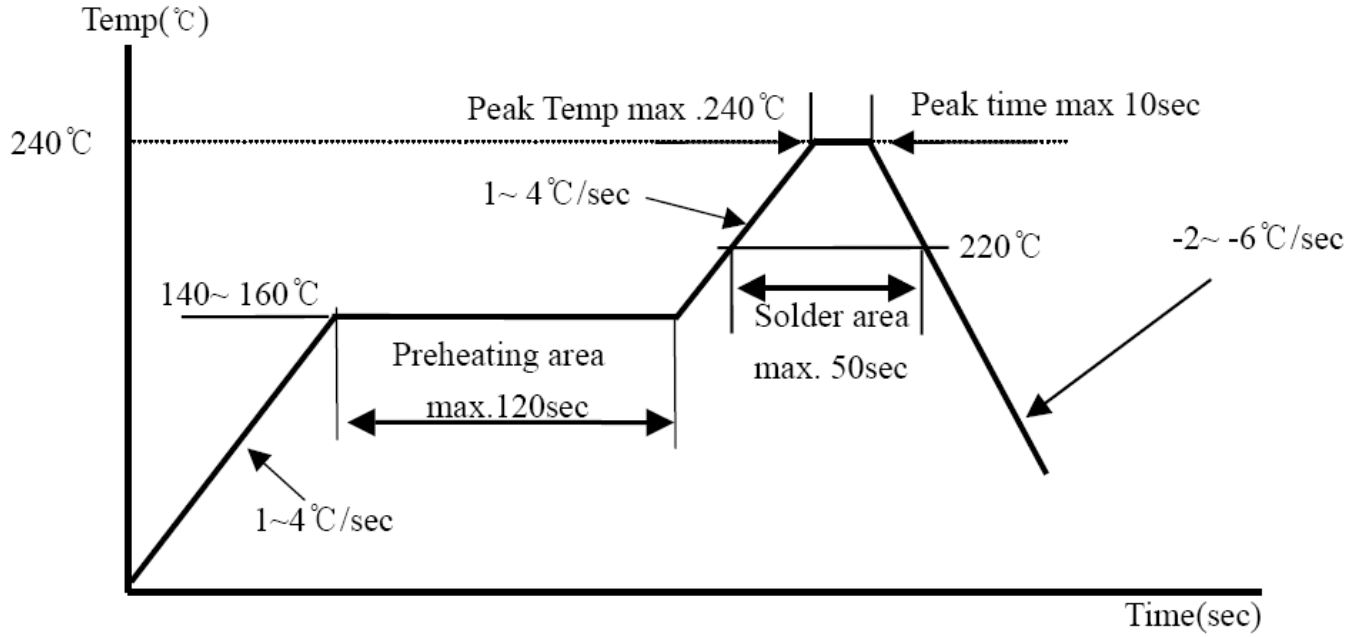
Test Equipment : Agilent E5052A or 4352B



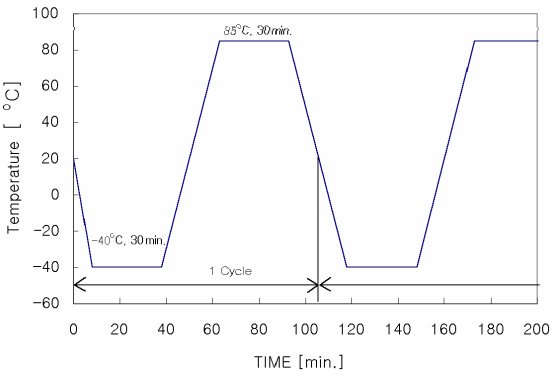
5. Recommendable Reflow Soldering Profile (Pb - Free)



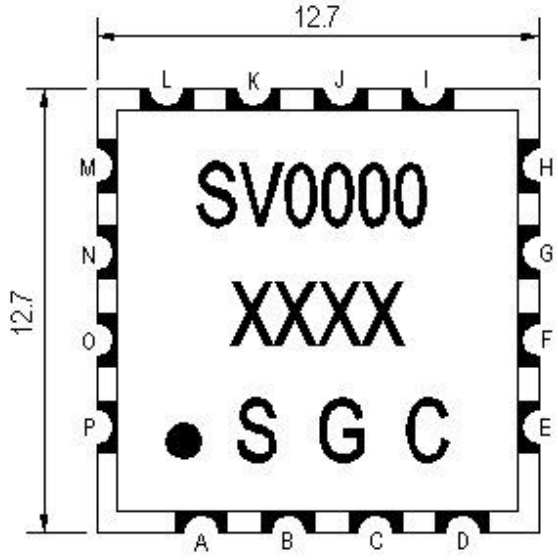
6. Recommendable Reflow Soldering Profile (Sn : Pb = 63:37))



7. Environmental Requirement

No	ITEM	Condition and Method	Evaluation
1	High Temperature Test	Temp. : +85℃ ± 2℃ 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℃ ± 2℃ Time : 96hrs ± 2hrs When measured after 2 to 24 hours in normal condition	
3	High Temperature & High Humidity	Temp. : +60℃ ± 2℃ Humi. : 90~95%RH Time : 72hrs ± 2hrs When measured after 2 to 24 hours in normal condition	
4	Temperature Cycle	 -40℃ 30min., +85℃ 30min., 5 Cycle When measured after 2 to 24 hours in normal condition	
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