1. Scope.

This specification applied to SV1212-3750R5V100M

2. Ratings

	ITEM	SYMBOL	RATING	UNIT
1	Supply Voltage	Vcc	5±0.25	V
2	Tuning Voltage	Vt	0.5 ~ 4.5	V
3	Operating Temperature	Top	-20 ~ +60	℃
4	Storage Temperature	Tstg	-50 ~ +100	℃
5	Storage Humidity	Hstg	0 ~ 95%	%

3. Electrical Characteristics

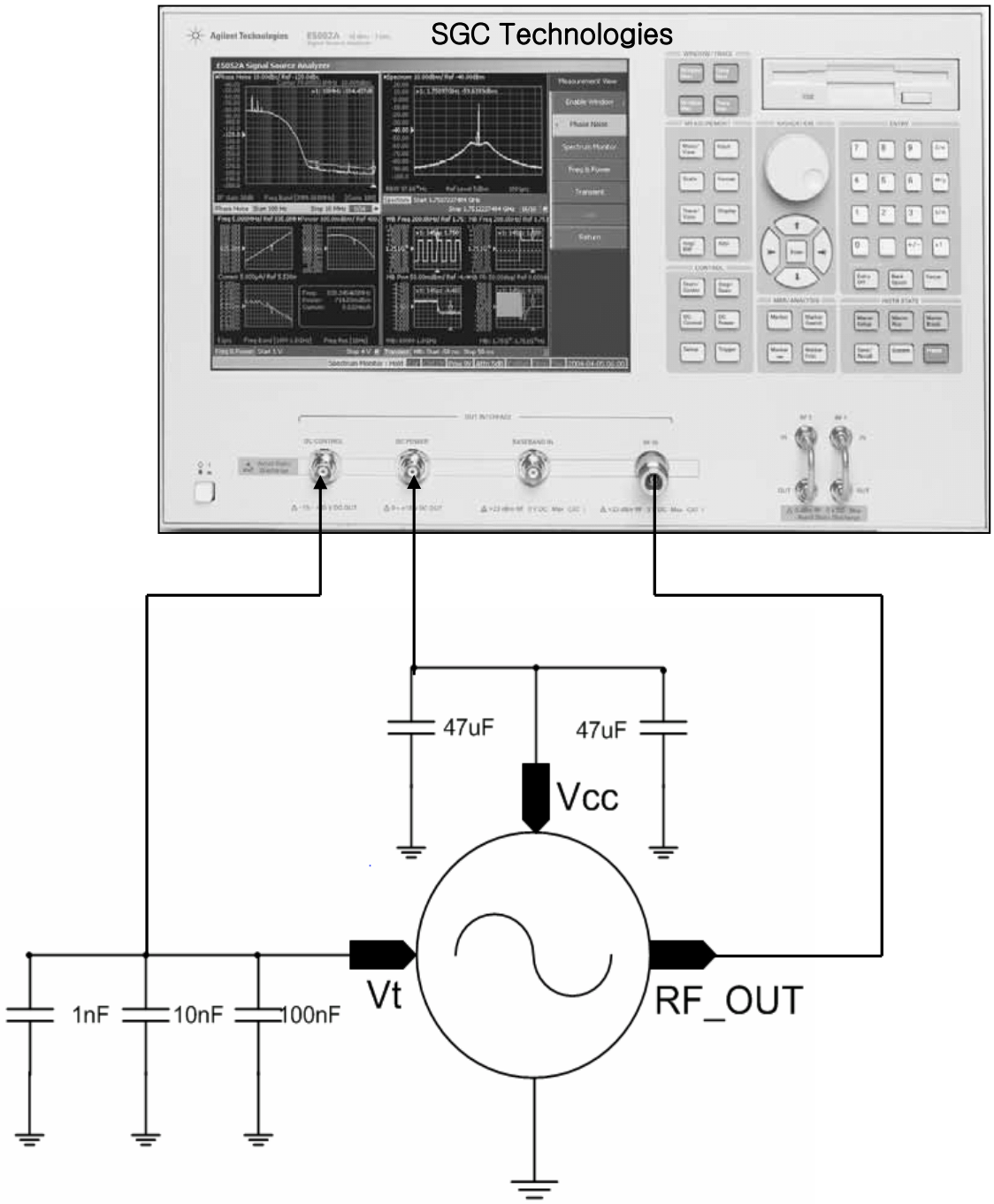
(Over output frequency range, T_A -20 to +60℃, Vcc=5.0V, Output load 50Ω, Unless otherwise stated)

ITEM	SPEC.			UNIT	Test conditions
	Min	Typ	Max		
Supply Voltage		5		V	DC Voltage
Frequency			3700	MHz	Vcc = 5.0V, Vt = 0.5V
	3800				Vcc = 5.0V, Vt = 4.5V
Current		25	30	mA	Vcc = 5.0V, Vt = 2.5V
Output Level	0	3	6	dBm	Vcc = 5.0V, Vt = 0.5V ~ 4.5V
Phase Noise (C/N)		-78	-75	dBc/Hz	1㎑ offset, Vcc=5.0V, Vt =2.5V
		-98	-95	dBc/Hz	10㎑ offset, Vcc=5.0V, Vt =2.5V
		-118	-115	dBc/Hz	100㎑ offset, Vcc=5.0V, Vt =2.5V
		-	-	dBc/Hz	1㎒ offset, Vcc=5.0V, Vt =2.5V
		-	-	dBc/Hz	10㎒ offset, Vcc=5.0V, Vt =2.5V
2nd Harmonic		-15	-10	dBc	Vcc = 5.0V, Vt = 2.5V
Tuning Sensitivity		30		MHz/V	Vt = 0.5V ~ 4.5V
Pulling	<1			MHz	Vcc = 5.0V, Vt = 2.5V VSWR = 1.5 : 1 All phase
Pushing	<1			MHz	Vcc = 5.0V ±0.25V, Vt= 2.5V
Input Capacitance	47			pF	

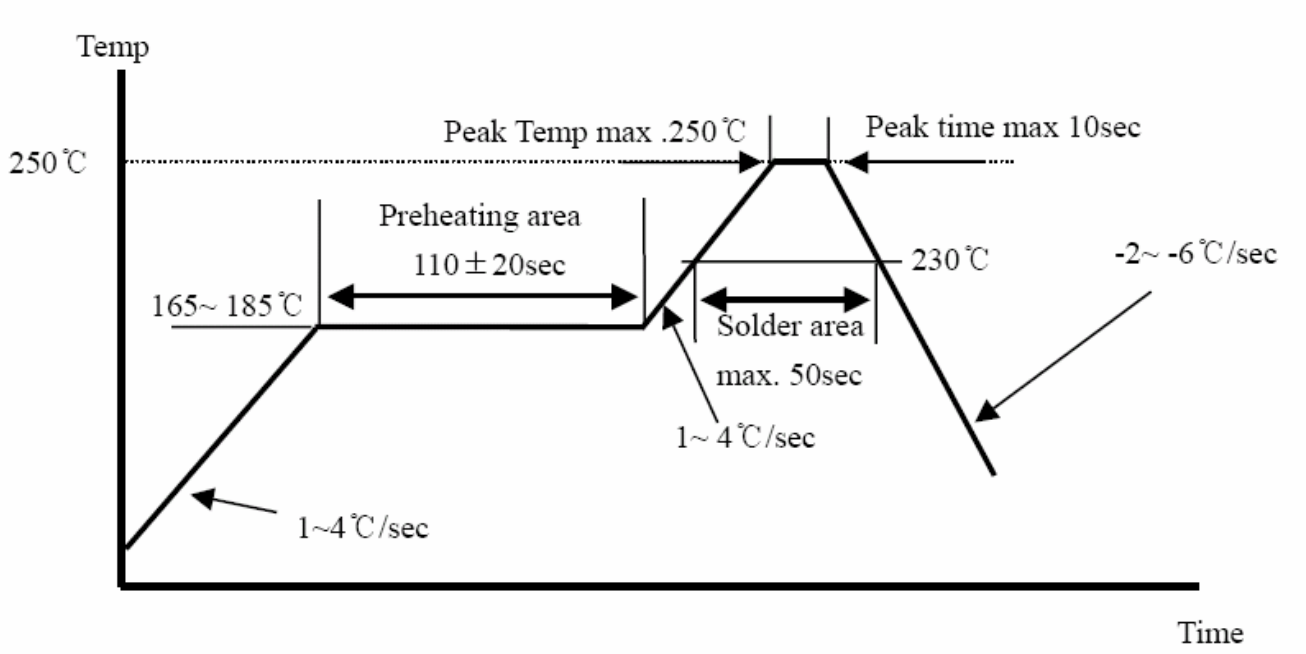
Testing temperature at 25±5℃

4. Measurement Circuit

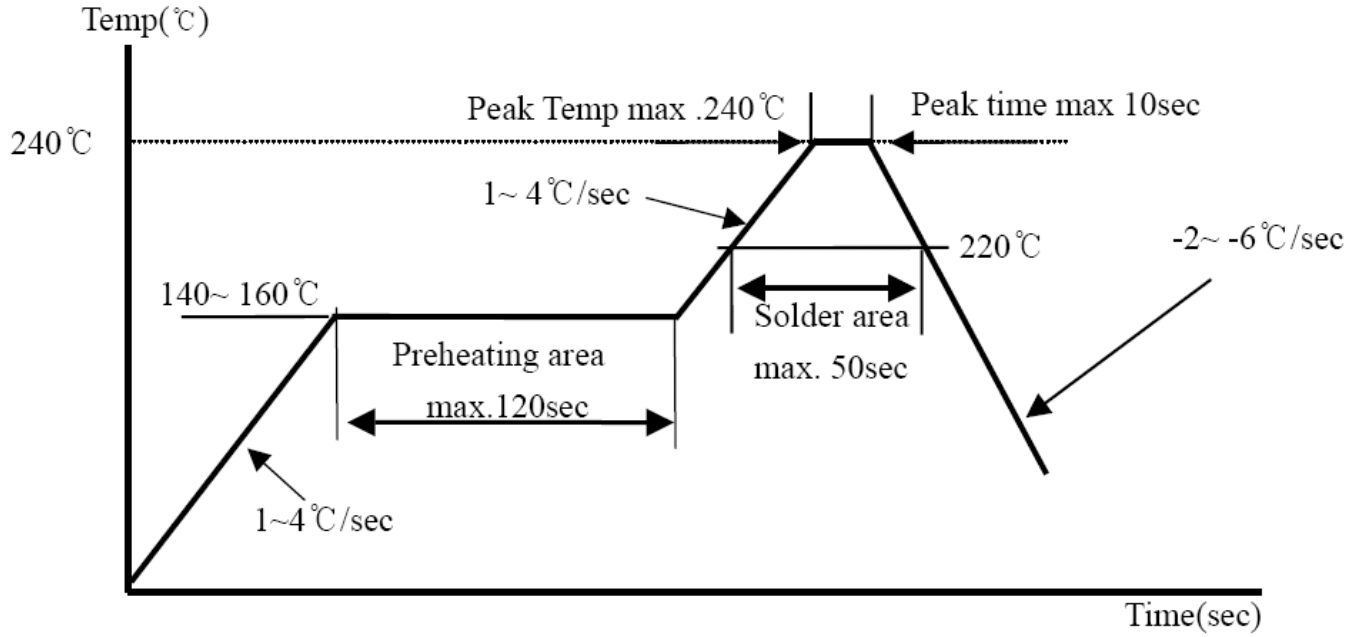
Test Equipment : Agilent E5052A or 4352B



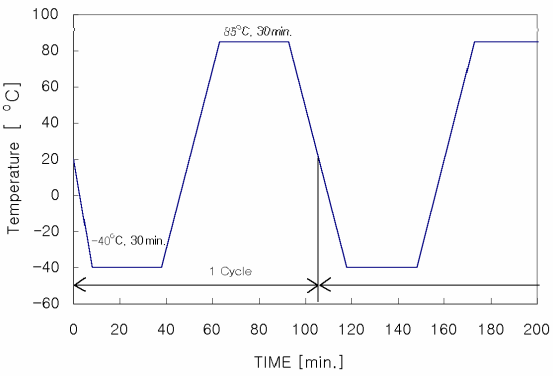
5. Recommendable Reflow Soldering Profile (Pb - Free)



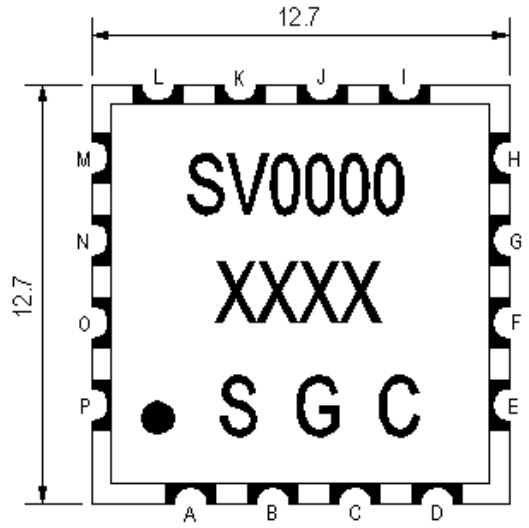
6. Recommendable Reflow Soldering Profile (Sn : Pb = 63:37))



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