Travelling Merchant:_____

DATASHEET

Standard: **T53-G519-14.40MHz**

P/N: _____

Plot			The Label
Drew	Audited	Approved	
Amway.wei	Carry.Wang	James.Liu	
Date: 2016.12.13			Stamp, please! Thanks!

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Table of amendment

Version	Revision contents	Prepared by	Revised date
1.0	The first issued	Amway	2016.12.13

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1. Electrical Parameters

MODEL： T53-G519-14.40MHz						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency	14.40			MHz	
	Output Waveform	Clipped Sine Wave				
	Vp-p	0.8			V	
	Load	10KΩ//10pF				
Frequency Stabilities	Frequency Tolerance vs. Operating Temperature Range	-2.5		+2.5	$\times 10^{-6}$	T_A varied from -30℃ to 75℃, measurement referenced to frequency observed with T_A=25℃, V_{cc}=3.3V, O_{load}= 10KΩ//10pF , temperature variable speed less than 2℃per minute.
	Nominal Frequency Tolerance	-1.0		+1.0	$\times 10^{-6}$	Measurement referenced to frequency observed with T_A=25℃, V_{cc}=3.3V within 30 days after ex-works.
	Frequency Tolerance vs. Supply Voltage	-0.2		+0.2	$\times 10^{-6}$	measurement referenced to frequency observed T_A=25℃, V_{cc} varied from 3.13V to 3.47V and O_{Load}=10KΩ//10pF .
	Frequency Tolerance vs. Load	-0.2		+0.2	$\times 10^{-6}$	5% load change measurement referenced to frequency observed with T_A=25℃, V_{cc}=3.3V and O_{Load}=10KΩ//10pF .
	Aging Tolerance Per Day	-0.02		+0.02	$\times 10^{-6}$	T_A=25 ℃ , V_{cc}=3.3V and after 1h of operation.
	Aging Tolerance 1 Year	-1		+1	$\times 10^{-6}$	
Power Supply	Operating Current			3	mA	@25℃, V_{cc}=3.3V, O_{Load}=10KΩ//10pF .
	Supply Voltage	3.13	3.3	3.47	V	
Phase Noise	Phase Noise		-130	-125	dBc/Hz	1KHz
Environmental Conditions	Operable Temperature	-30		+75	℃	
	Storage Temperature	-55		+105	℃	
	ESD Level	Human Body Model,class2: 2000V to 4000V; ANSI/ESDA/JEDEC JS-001-2010.				
		Machine Model, class B: 200V to 400V; ANSI/ESDA/JEDEC JS-001-2010.				
	Moisture Sensitivity Level	Level 2.				
	Vibration	Test Condition: 0.75mm ;acceleration:10g;10Hz～2000Hz, one cycle per 30 min, test 2 hour. (3 times for each 3 directions X ,Y , Z) .IEC 68-2-06 Test Fc.				
	Shock	100g；6ms；half sine wave (3 times for each 3 directions X ,Y, Z),IEC 68-2-27 Test Ea/Severity 50A.				
Full Package Storage	Relative humidity (%)	20%～70%				
	Temperature (℃)	-10~35℃				

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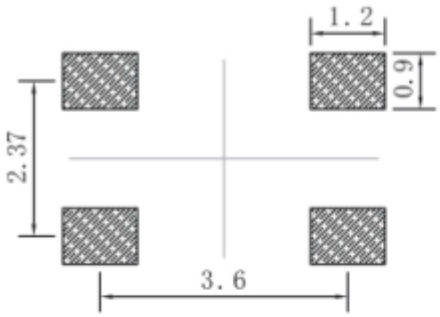
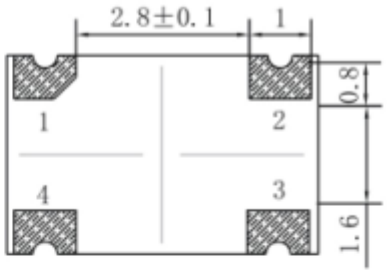
2. Mechanical Structure(mm)



Solder pad layout



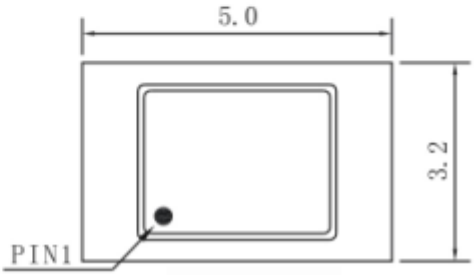
Bottom view

Right view

Side view

PIN FUNCTION

PIN	NOTATION	FUNCTION
1	NC	Not Connect
2	GND	GND
3	OUTPUT	RF Output
4	VCC	Supply Voltage



Top view

Note1: Tolerance ±0.2mm without mark

Note2: Referential weight 0.2g

Note3: NC is not connect

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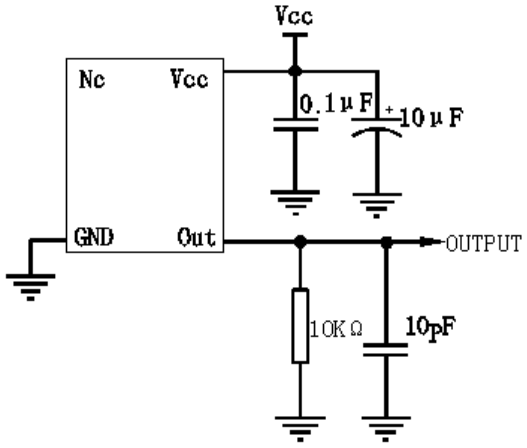
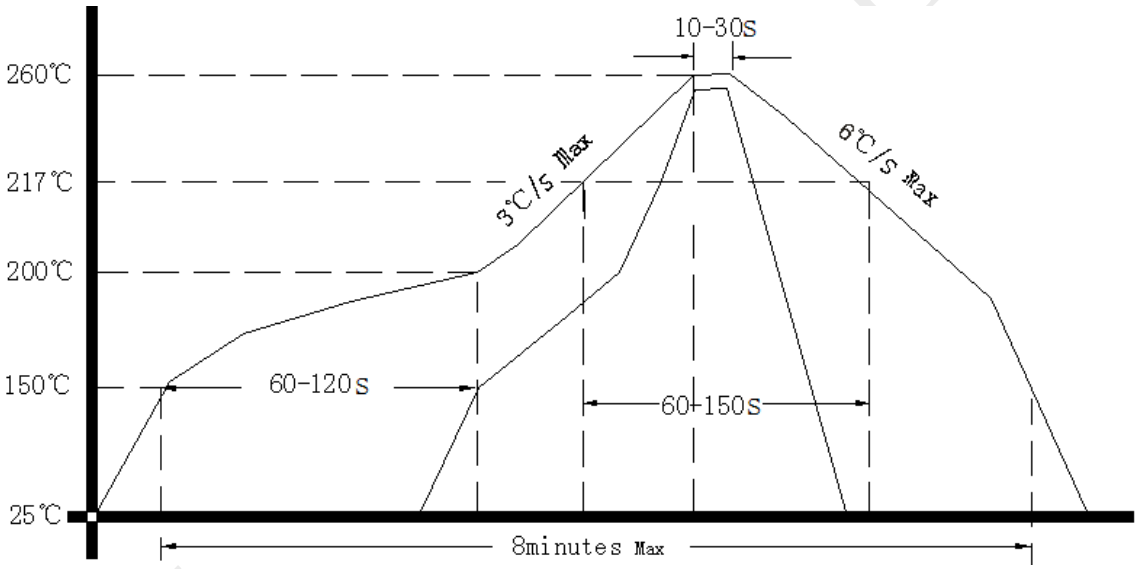
3. Test Circuit



4. Reflow Soldering Curve (RoHS)



5. Package: Tape & Reel (mm)