Travelling Merchant:_____

DATASHEET

Standard: **V53-C611-122.88MHz**

P/N: _____

Plot			The Label
Drew	Audited	Approved	
Amway.wei	Carry.Wang	James.Liu	
Date: 2016.10.18			Stamp, please! Thanks!

Guangdong Dapu Telecom Technology Co.,Ltd

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Table of amendment

Version	Revision contents	Prepared by	Revised date
1.0	The first issued	Amway	2016.10.18

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1. Electrical Parameters

MODEL： V53-C611-122.88MHz						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency	122.88			MHz	
	Output Waveform	LVPECL				
	Output Low Voltage			Vcc-1.55	V	V_{cc}=3.3V, O_{load}=50Ω
	Output High Voltage	Vcc-1.10			V	V_{cc}=3.3V, O_{load}=50Ω
	Duty Cycle	45	50	55	%	@ Vcc -1.30,Vc=1/2Vcc
	Rise / Fall Time （20%~80%）			1	ns	20%~80%
	Output voltage differential	600			mV	
	Oscillation start up time			10	ms	
	Load	50			Ω	
Input	Output enable/ disable Input High voltage	70%Vcc			V	Terminal #2 VIH or OPEN =>Enable
	Output enable/ disable Input Low voltage			30%Vcc	V	Terminal #2 VIL or OPEN=>Disable
Frequency Stabilities	Frequency Stabilities	-50		+50	$\times 10^{-6}$	Incl. initial tol. temp. range, load variation and aging 10 years .
	Sensitivity			80±25%	$\times 10^{-6}$/V	Measurement referenced to frequency observed with T_A=25℃, V_{cc}=3.3V, V_c=1.65V within 30 days after ex-works.
Power Supply	Supply Current			65	mA	@25℃, V_{cc}=3.3V, V_c=1.65V, O_{load}=50Ω .
	Supply Voltage	3.13	3.3	3.47	V	

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Voltage Control Characteristics	APR Absolute Pull Range	-150		-50	$\times 10^{-6}$	V_c=0V. measurement referenced to V_c=1.65V
		+50		+150	$\times 10^{-6}$	V_c=3.3V. measurement referenced to V_c=1.65V
	Linearity			8	%	
	Slope	Positive				
	Input Resistance	1			MΩ	
	Modulation Bandwidth	10			KHz	±3dB (at 1KHz)
Jitter				1	ps	12KHz to 20MHz
Phase Noise -40 to +85℃	Phase Noise		-67	-58	dBc/Hz	10Hz
			-97	-90		100Hz
			-117	-114		1KHz
			-145	-143		10KHz
			-147	-146		100KHz
Phase Noise -85 to +105℃	Phase Noise		-67	-51	dBc/Hz	10Hz
			-97	-81		100Hz
			-117	-112		1KHz
			-145	-140		10KHz
			-147	-143		100KHz
Environmental Conditions	Operable Temperature	-40		+105	℃	
	Storage Temperature	-55		+125	℃	
	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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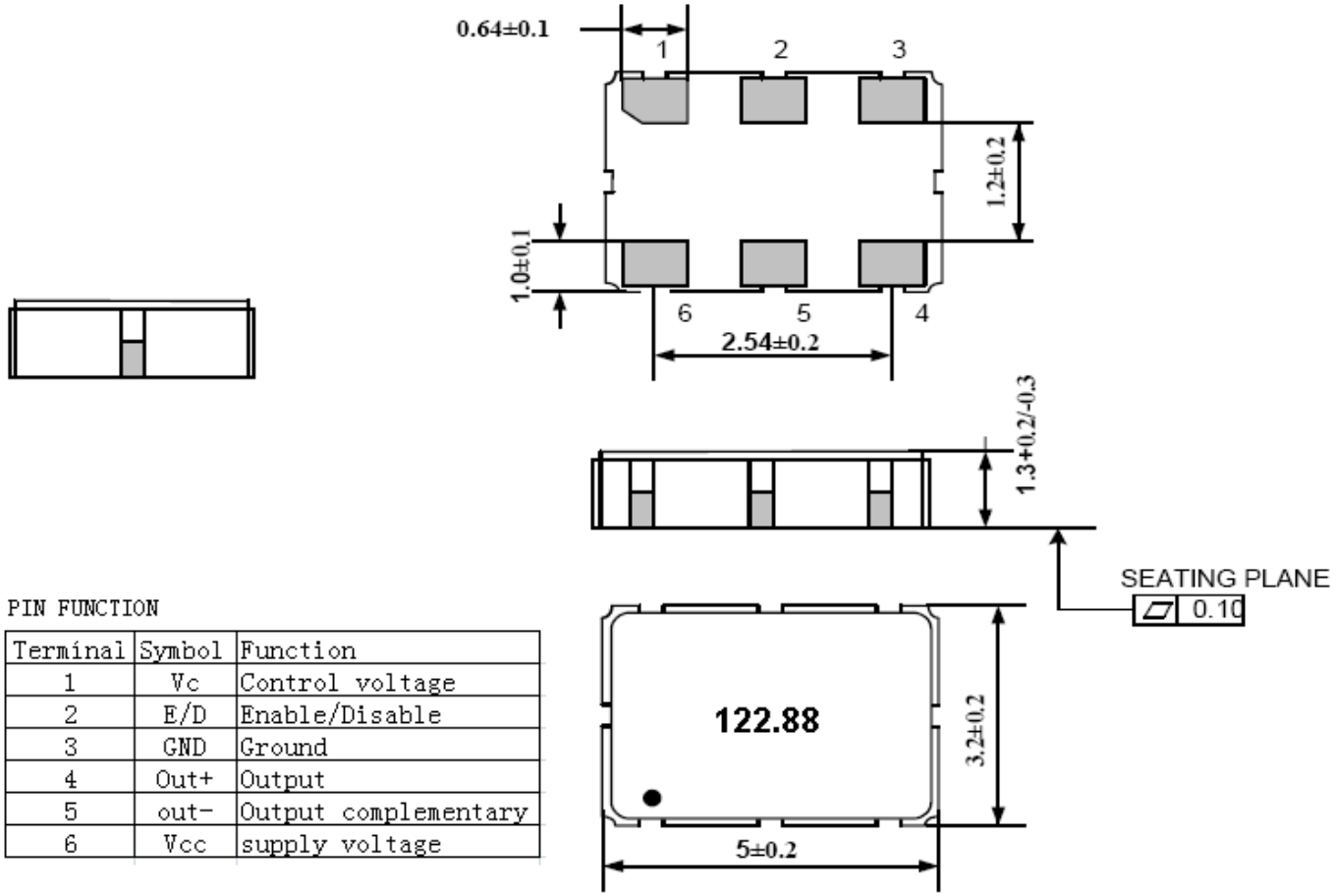
2. Mechanical Structure(mm)



PIN FUNCTION

Terminal	Symbol	Function
1	Vc	Control voltage
2	E/D	Enable/Disable
3	GND	Ground
4	Out+	Output
5	out-	Output complementary
6	Vcc	supply voltage

Note1: Tolerance ±0.2mm without mark

Note2: Referential weight 0.1g

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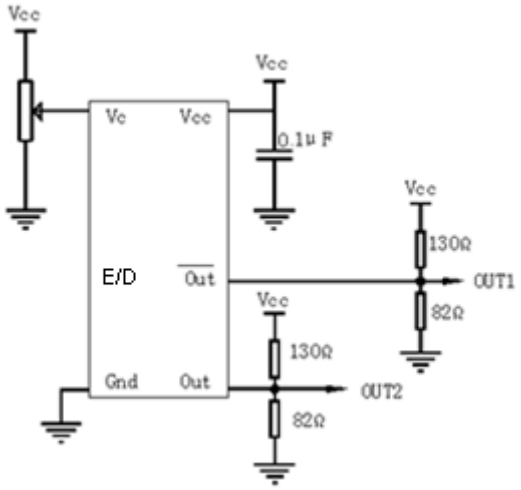
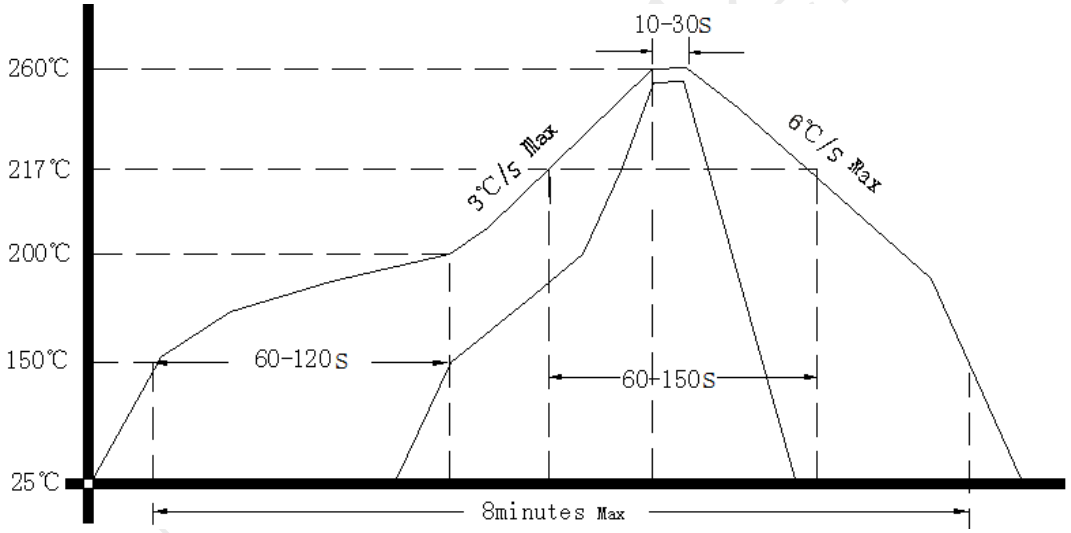
3. Test circuit



4. Reflow Soldering Curve (RoHS)



5. Package: Tape & Reel (mm)