Travelling Merchant:_____

DATASHEET

Standard: **O11S-R325-10.00MHz**

P/N: _____

Plot			The Label
Drew	Audited	Approved	
Amway.wei	Tony·Wang	James.Liu	
Date: 2010.11.28			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	2010.11.28

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1、Electrical Parameters

MODEL：O11S-R325-10.00MHz						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency		10.00		MHz	
	Output Waveform		HCMOS			
	Output Low Voltage			0.4	V	V_{cc}=5.0V, O_{load}=15pF
	Output High Voltage	2.4			V	V_{cc}=5.0V, O_{load}=15pF
	Duty Cycle	45	50	55	%	@50%
	Rise / Fall Time (10%~90%)			10	ns	
	Load		15		pF	
Frequency Stabilities	Frequency Tolerance vs. Operating Temperature Range	-5		+5	$\times 10^{-9}$	T_A varied from-40℃ to 85℃, measurement referenced to frequency observed with $f_{ref} = (f_{max} - f_{min})/2\ f_0$, V_{cc}= 5.0V, V_c= 2.5V, O_{load}=15pF, temperature variable speed less than 2℃per minute.
	Initial Frequency Tolerance	-0.5		+0.5	$\times 10^{-6}$	Measurement referenced to frequency observed with T_A=25℃, V_{cc}=5.0V, V_c=2.5V, and after 15 minutes of operation, within 30 days after ex-works.
	Frequency Tolerance vs. Supply Voltage	-2		+2	$\times 10^{-9}$	measurement referenced to frequency observed T_A=25℃, V_{cc} varied from4.75V to 5.25V, V_c =2.5V and O_{Load}= 15pF.
	Frequency Tolerance vs. Load	-2		+2	$\times 10^{-9}$	5% load change measurement referenced to frequency observed with T_A= 25℃, V_{cc}=5.0V, V_c=2.5V, O_{Load}= 15pF.
	Short-Term Stability: Allan Variance			0.1	$\times 10^{-9}$	Temperature stability, no EMI\EMC or other interference，test after power for 1hour ref. to 25℃; 1s , using PN9000 equipment.
	Aging Tolerance Per Day	-5		+5	$\times 10^{-9}$	V_{cc}, V_c, T_A constant measurement referenced to frequency observed with T_A= 25℃, V_{cc}= 5.0V, V_c=2.5V,and after 30 days of operation.
	Aging Tolerance 1 Year	-1		+1	$\times 10^{-6}$	

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Power Supply	Supply Voltage	4.75	5.0	5.25	V	
	Current Consumption			150	mA	@25℃
	Warm-Up Time			5	minute	@25℃within ±0.1×$10^{-6}$of final frequency with reference after 1 hour on.
	Current Consumption during warm up			300	mA	
Voltage Control Characteristics	Frequency Tuning Range	-10		-5	×10^{-6}	V_c= 0 V. measurement referenced to V_c=2.5V
		-0.5		+0.5	×10^{-6}	V_c=2.5V. measurement referenced to exactly 10.00MHz
		+5		+10	×10^{-6}	V_c=5.0V. measurement referenced to V_c=2.5V
	Linearity			10	%	
	Slope	Positive				
	Input Impedance	100			KΩ	
Phase Noise	Phase Noise		-95	-90	dBc/Hz	10Hz
			-115	-110		100Hz
			-138	-135		1KHz
			-145	-142		10KHz
			-148	-145		100KHz
			-150	-147		1MHz
Environmental Conditions	Operable Temperature	-40		+85	℃	
	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～500Hz, one cycle per 30 min, test 2 hour. (3 times for each 3 directions X ,Y , Z), IEC 68-2-06 Test Fc.				
	Shock	50g; 11ms; half sine wave (3 times for each 3 directions X ,Y, Z),IEC 68-2-27 Test Ea/Severity 50A.				

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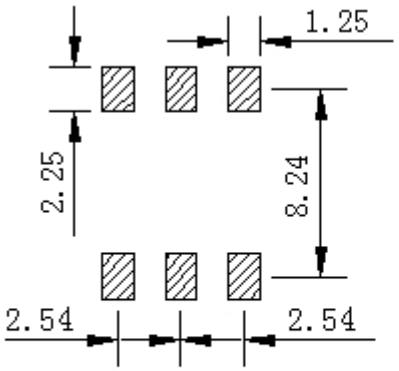
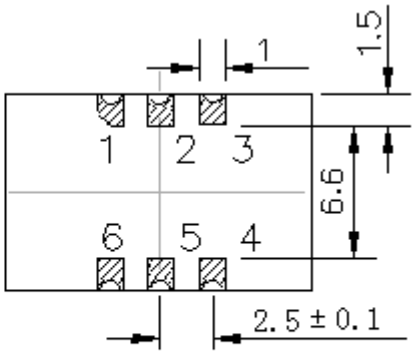
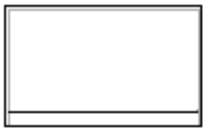
2、Mechanical Structure(mm)



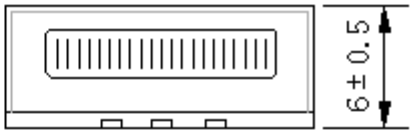
Solder Pad layout



Bottom view



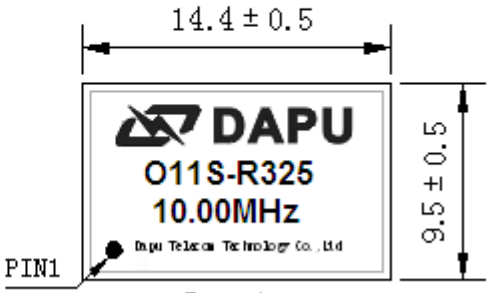
Right view



Side view

PIN FUNCTION

PIN	FUNCTION
1	VC
2,5	NC
3	GND
4	OUTPUT
6	VCC



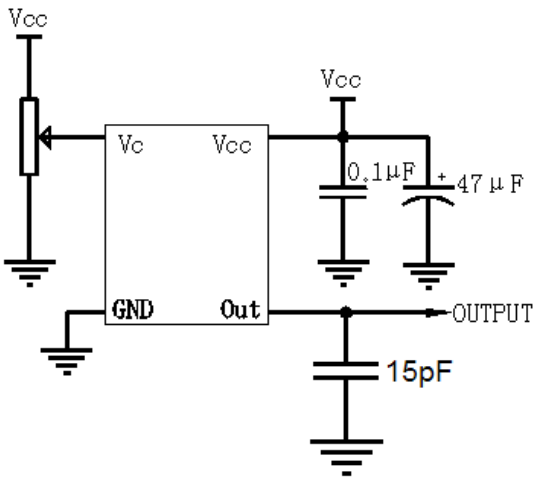
Top view

Note1: Tolerance ±0.2mm without mark

Note2: Referential Weight 1.3g

Note3: NC is not connect

3、Test Circuit



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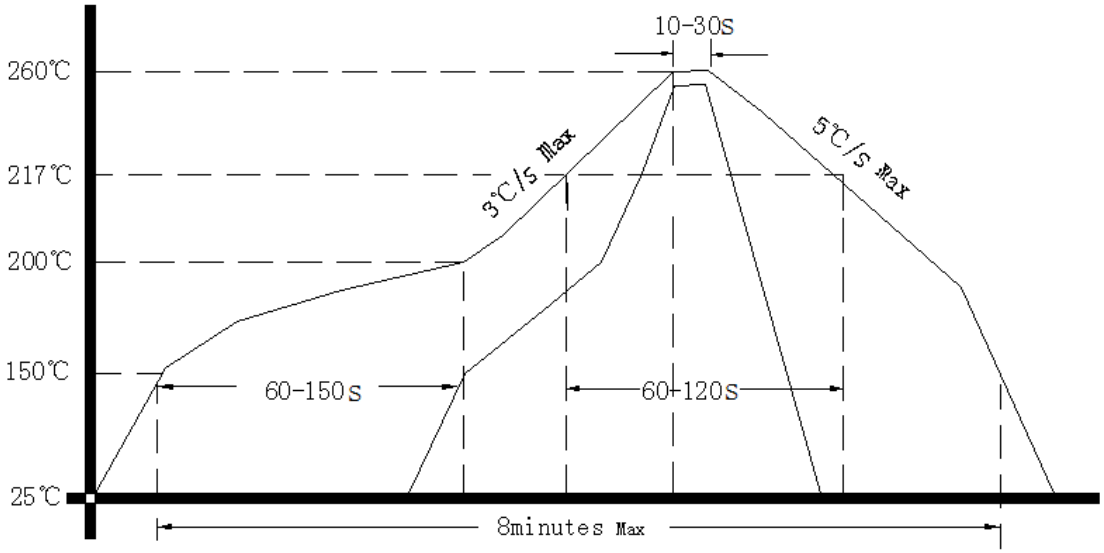
4、Reflow Soldering Curve (RoHS)



5、Package: Tape & Reel (mm)