Customer Code : _____

DATASHEET

DAPU P/N : **O11G-L325-20.00MHz** (2O2000BAIQT1)

Customer P/N: _____

DAPU			Customer Approval
Drew	Audited	Approved	
Amway.wei	Tony · Wang	James.Liu	
Date: 2015.03.11			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	2015.03.11

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1. Electrical Parameters

MODEL：O11G-L325-20.00MHz						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency		20.00		MHz	
	Output Waveform		HCMOS			
	Output Low Voltage			0.4	V	V_{cc}=5.0V, O_{load}=10KΩ// 10pF
	Output High Voltage	3.8			V	V_{cc}=5.0V, O_{load}=10KΩ// 10pF
	Duty Cycle	45	50	55	%	@50%
	Load		10KΩ// 10pF		pF	
Frequency Stabilities	Frequency Tolerance vs. Operating Temperature Range	-0.05		+0.05	$\times 10^{-6}$	T_A varied from-40℃ to 85℃, measurement referenced to frequency observed with T_A=25℃, V_{cc}=5.0V, V_c=2.1V, O_{load}=10KΩ// 10pF , temperature variable speed less than 2℃per minute.
	Initial Frequency Tolerance	-0.1		+0.1	$\times 10^{-6}$	Measurement referenced to frequency observed with T_A=25℃, V_{cc}=5.0V, V_c=2.1V and after 15 minutes of operation, within 30 days after ex-works.
	Frequency Tolerance vs. supply voltage	-5		+5	$\times 10^{-9}$	measurement referenced to frequency observed T_A=25℃, V_{cc} varied from 4.75V to 5.25V, V_c=2.1V, O_{load}=10KΩ// 10pF .
	Frequency Tolerance vs. Load	-5		+5	$\times 10^{-9}$	5% Load Change Measurement referenced to frequency observed with T_A=25℃, V_{cc}=5.0V, V_c=2.1V, O_{load}=10KΩ// 10pF .
	Aging Tolerance per day	-1		+1	$\times 10^{-9}$	V_{cc},V_c, T_A constant Measurement referenced to frequency observed with T_A=25℃, V_{cc}=5.0V, V_c=2.1V, O_{load}=10KΩ// 10pF and after 30 days of operation.
	Aging Tolerance 1Year	-0.1		+0.1	$\times 10^{-6}$	
Power Supply	Supply Voltage	4.75	5.0	5.25	V	
	Steady Consumption		35	50	mA	@25℃
	Warm up current	120		220	mA	
	Vref Out	4.1	4.2	4.3	V	
	Warm-Up Time		60	90	s	@25℃,Df/f=0.1×10^{-6}.

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Voltage Control Characteristics	Frequency Tuning Range		-1	-0.5	$\times 10^{-6}$	V_c=0V. measurement referenced to V_c=2.1V.
		-0.1		+0.1	$\times 10^{-6}$	V_c=2.1V. measurement referenced to exactly 20.00MHz.
		+0.5	+1		$\times 10^{-6}$	V_c=4.2V. measurement referenced to V_c=2.1V.
	Linearity			10	%	
	Slope	Positive				
	Input Impedance		100		KΩ	
	Input BW		160		Hz	-3dB
	Output resistance of Vref		91		Ω	
Phase Noise	Phase Noise (Static)		-90	-85	dBc/Hz	1Hz
			-123	-118		10Hz
			-145	-143		100Hz
			-155	-153		1KHz
			-165	-160		10KHz
			-165	-160		100KHz
Environmental Conditions	Operable Temperature	-40		+85	℃	
	Storage Temperature	-60		+90	℃	
	Humidity	Non-condensing 95%.				
	Vibration	Per MIL-STD-202, 5G to 2000Hz. MIL-STD-202 , 15G swept sine 10 to 2000Hz.				
	Shock	Per MIL-STD-202, 100G half sine pulse ,1ms.				
Full Package Storage	Relative humidity (%)	20%～70%				
	Temperature (℃)	-10~35℃				

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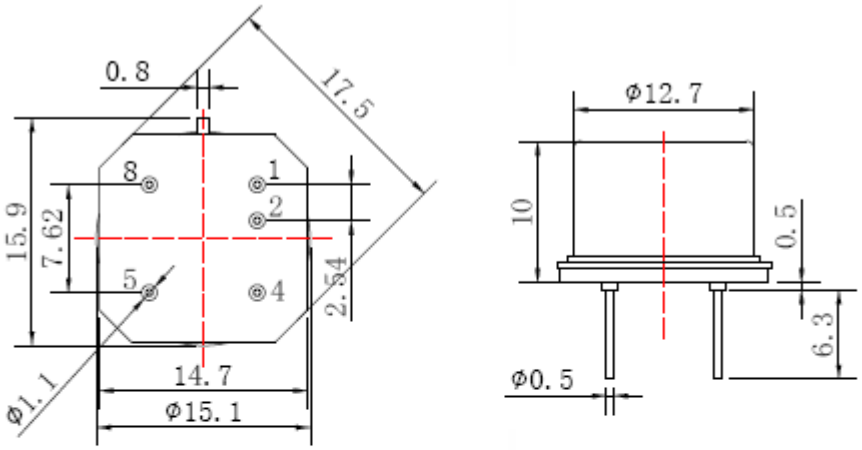
2. Mechanical Structure (mm)



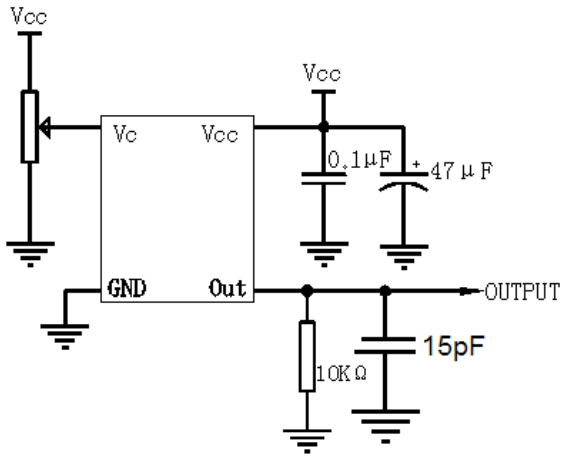
PIN FUNCTION

PIN	NOTATION	FUNCTION
1	VC	Control Voltage
2	Vref	Reference Voltage
4	GND	GND
5	OUTPUT	RF Output
8	VCC	Supply Voltage

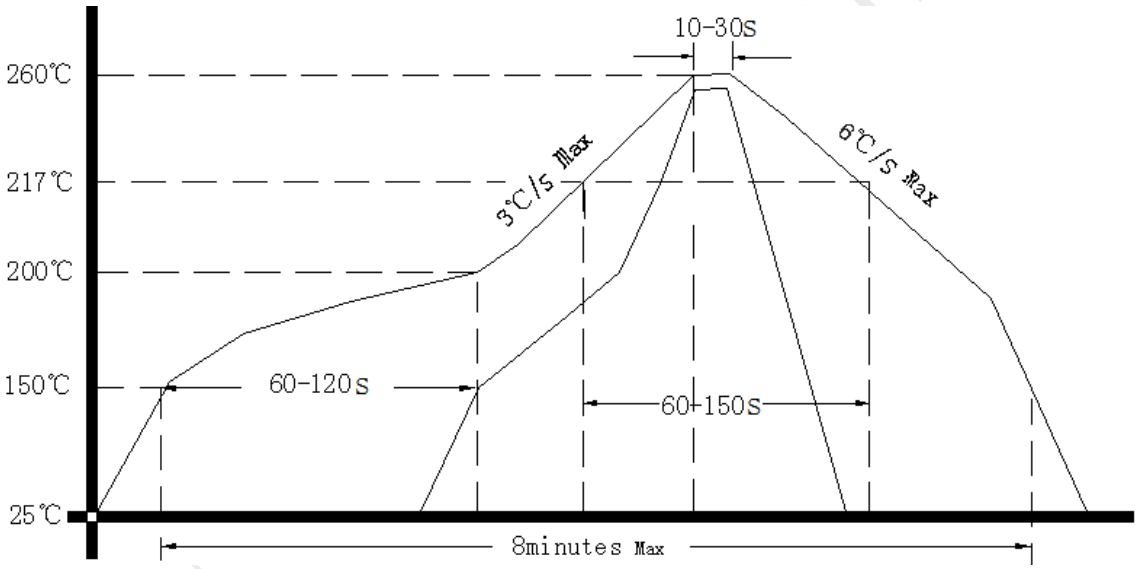
Note1: Tolerance ±0.2mm without mark

Note2: The first two xx representative: week
After two xx representative: year

3. Test Circuit



4. Reflow Soldering Curve (RoHS)



5. Package(mm)