Customer Code : _____

DATASHEET

DAPU P/N : **V936-A311-122.88MHz**

Customer P/N: _____

DAPU			Customer Approval
Drew	Audited	Approved	Stamp, please! Thanks!
Amway.wei	Tony · Wang	James.Liu	
Date: 2020.03.27			

Guangdong Dapu Telecom Technology Co.,Ltd

Bldg13-16,.N.Ind.Zone,SSL Industry Park, Dongguan City, Guangdong Province, China

TEL：0086-0769-88010888 FAX：0086-0769-81800098

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Table of amendment

Version	Revision contents	Prepared by	Revised date
1.0	The first issued	Amway	2020.03.27

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1、 Electrical Parameters

Parameters	SYM	Electrical Spec.				Notes
		Min.	Typ.	Max.	Units	
Frequency Stabilities						
Nominal Frequency	F_N		122.88		MHz	
APR		±20			$\times 10^{-6}$	Cover frequency tolerance@25℃ and frequency stability vs. operating temperature range and first year aging.
RF Output						
Output Waveform			HCMOS			
Load	I_{OUT}		15		pF	
High Levels	V_{OH}	90%			Vdd	
Low Levels	V_{OL}			10%	Vdd	
Rise / Fall Time	T_r/ T_f			3	ns	10%-90%
Symmetry	SYM	45		55	%	
Start-up Time	T_S			10	ms	
Aging@1 year		-3		+3	$\times 10^{-6}$	Covered by APR
Ageing after first year		-1		+1	$\times 10^{-6}$	
Supply Voltage						
Supply Voltage	V_{CC}	2.97	3.3	3.63	V	
Supply Current	I_{CC}			25	mA	
Control Voltage						
Control Voltage		0	1.65	3.3	V	
Tuning sensitivity			25		$\times 10^{-6}$/V	
Absolute Pull Range (APR)		±20			$\times 10^{-6}$	
Linearity				5	%	
Modulation Bandwidth		10			KHz	@-3dB
Input Impedance			51		Kohm	
Slope			Positive			
Phase Noise						
Jitter RMS (12KHz-20MHz)			40		fs	
Phase Noise			-140		dBc/Hz	1KHz
			-155			10KHz
			-164			100KHz
			-166			1MHz
Phase Noise floor			-166	-162	dBc	

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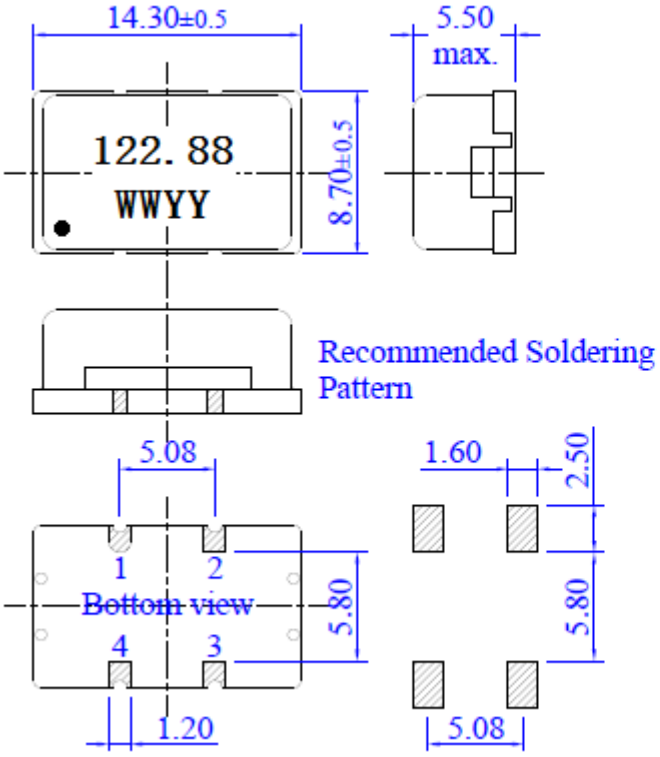
Environmental Conditions						
Operating Temperature	T_{OP}	-40	~	85	℃	
Storage Temperature	T_{ST}	-55	~	125	℃	
Shock	MIL-STD-202F method 213B, test condition: E, 1000G half-Sine wave.					
Vibration	MIL-STD-202F method 204,35G,50 to 2000Hz					
Humidity & solderability	85%RH,+85℃ for 48hours& MIL-STD-202F method 208E.					
Fine leak/Gross leak	MIL-STD-883 method 1014,condition A/MIL-STD-883 Method 1014,condition C.					
Resistance to solvent	MIL-STD-202 method 215.					
Temperature cycling	MIL-STD-883 method 1010.					
Reflow	+260℃ for 10sec.2x.					

2、 Mechanical Structure(mm)



SP2 package: 4 pads, **14.3x8.7x5.5mm**
Lead-free and full RoHs compliant

Pin connections:
#1: Control voltage
#2: GND
#3: Output
#4: Vdd

Note1: The WW representative: week
After YY representative: year