

Customer Code : _____

DATASHEET

DAPU P/N : V936-B311-122.88MHz-A

Customer P/N: _____

DAPU			Customer Approval
Drew	Audited	Approved	Stamp, please! Thanks!
Date: 2024.09.20			

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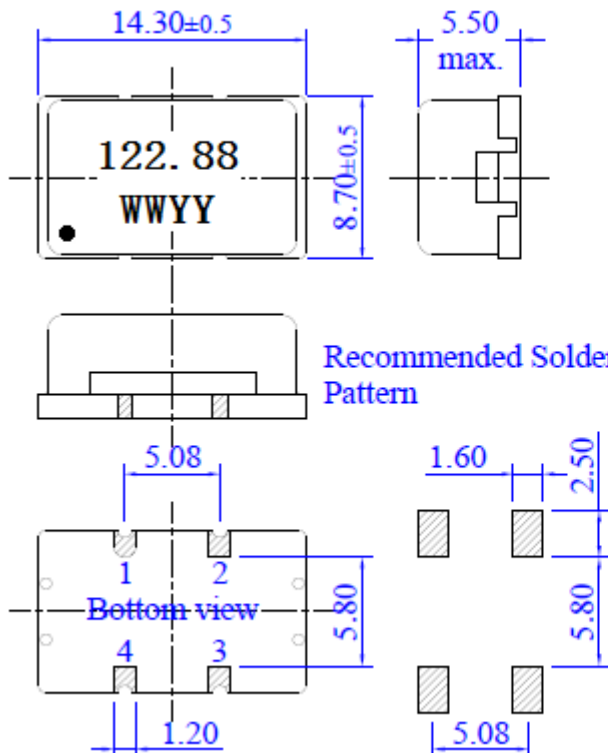
1、 Electrical Parameters

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°C 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)			18		fs	
Phase Noise			-140		dBc/Hz	1KHz
			-155			10KHz
			-164			100KHz
			-166			1MHz
Phase Noise floor			-166	-162	dBc	



Environmental Conditions						
Operating Temperature	T _{OP}	-40	~	95	°C	
Storage Temperature	T _{ST}	-55	~	125	°C	
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°C 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°C 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