Travelling Merchant:_____

DATASHEET

Standard: **V756-D313-122.88MHz**

P/N: **2PZ75YM12281**

Plot			The Label
Drew	Audited	Approved	
Amway.wei	Carry.Wang	Jason zhao	
Date: 2020.05.13			Stamp, please! Thanks!

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Table of amendment

Version	Revision contents	Prepared by	Revised date
1.0	The first issued	Amway	2014.07.21
1.1	The “Start-up Time” “Frequency Tolerance vs. Supply Voltage” “Frequency Tolerance vs. Load” “Control Voltage” “ESD Level” “Mechanical Structure” changed	Amway	2020.05.13

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1. Electrical Parameters

MODEL： V756-D313-122.88MHz						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency		122.88		MHz	
	Output Waveform		HCMOS			
	Output Low Voltage			$0.1V_{cc}$	V	V_{cc}=3.3V, O_{load}=15 pF
	Output High Voltage	$0.9V_{cc}$			V	V_{cc}=3.3V, O_{load}=15 pF
	Duty Cycle	45	50	55	%	@50%
	Rise / Fall Time （10%~90%）			3	ns	@25℃
	Load		15		pF	
	Period Jitter			1	ps	RMS (12KHz~20MHz)
	Start-up Time			3	ms	To 90% of final amplitude
Frequency Stabilities	Frequency Tolerance vs. Operating Temperature Range	-20		+20	$\times 10^{-6}$	T_A varied from-40℃ to 85℃, measurement referenced to frequency observed with T_A=25℃, V_{cc}=3.3V, V_c=1.65V, O_{load}=15pF, temperature variable speed less than 2℃per minute.
	Initial Frequency Tolerance	-20		+20	$\times 10^{-6}$	Measurement referenced to frequency observed with T_A=25℃, V_{cc}=3.3V, V_c=1.65V within 30 days after ex-works.
	Frequency Tolerance vs. Supply Voltage	-5		+5	$\times 10^{-6}$	measurement referenced to frequency observed T_A=25℃, V_{cc} varied from 3.13V to 3.47V, V_c=1.65V, and O_{Load}=15pF .
	Frequency Tolerance vs. Load	-3		+3	$\times 10^{-6}$	10% load change measurement referenced to frequency observed with T_A=25℃, V_{cc}=3.3V, V_c=1.65V, O_{Load}=15pF.
	Aging Tolerance 1 Year	-5		+5	$\times 10^{-6}$	T_A=25℃, V_{cc}=3.3V, and after 1h of operation.
	Aging Tolerance 15 Years	-15		+15	$\times 10^{-6}$	
Power Supply	Current Consumption			40	mA	@25℃, V_{cc}=3.3V, V_c=1.65V, O_{load}=15pF.
	Supply Voltage	3.13	3.3	3.47	V	

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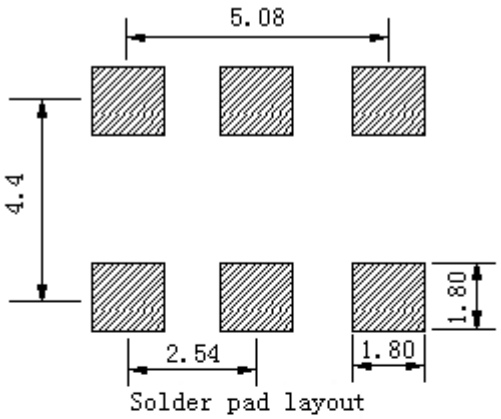
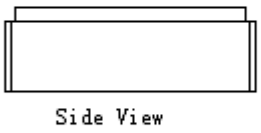
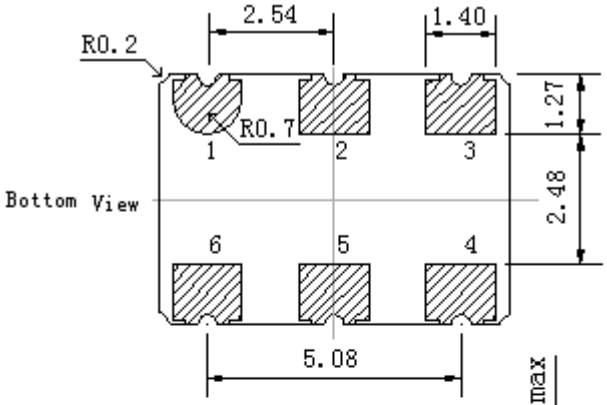
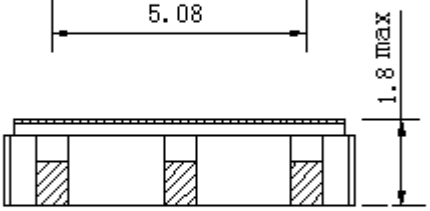
Voltage Control Characteristics	Control Voltage	0.3	1.65	3.0	V	
	Absolute Pull Range			-50	$\times 10^{-6}$	
		+50			$\times 10^{-6}$	
	Linearity			10	%	
	Slope	Positive				
	Input Impedance	2	5		MΩ	
	Modulation BW	15	20		KHz	
Phase Noise	Phase Noise		-65		dBc/Hz	10Hz
			-95			100Hz
			-124			1KHz
			-139			10KHz
			-150			100KHz
Environmental Conditions	Operable Temperature	-40		+85	℃	
	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; JEDEC JESD22-A115C.				
	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.				

2. Mechanical Structure(mm)



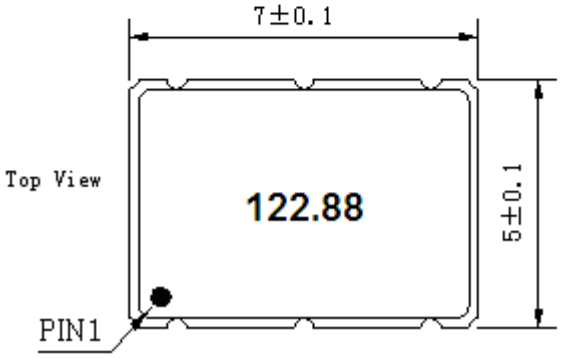






PIN FUNCTION

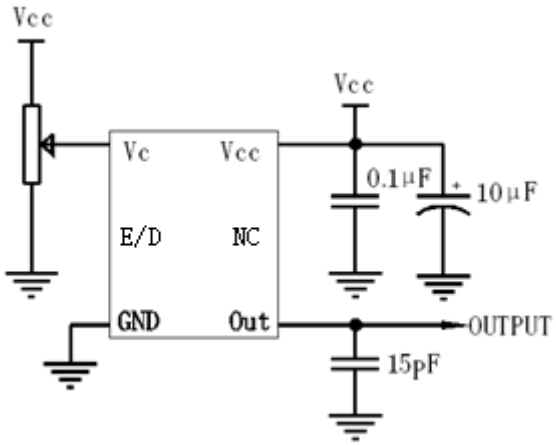
PIN	FUNCTION
1	VC
2	E/D
3	GND
4	OUTPUT
5	NC
6	VDD



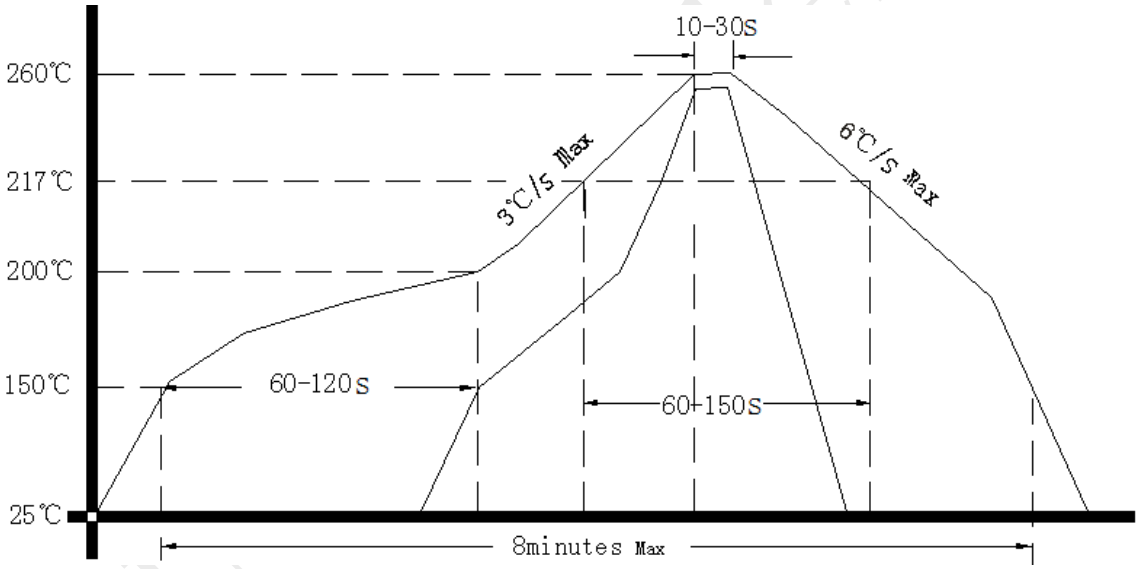
Note1: Pin2 function:

E/D	
high or open	Enable
low or GND	Disable

3. Test circuit



4. Reflow Soldering Curve (RoHS)



5. Package: Tape & Reel (mm)