

Travelling Merchant: _____

DATASHEET

Standard: **V756-E311-122.88MHz** P/N: **Y75YM12288**

Plot			The Label
Drew	Audited	Approved	Stamp, please! Thanks!
Date: 2014.08.25			

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1. Electrical Parameters

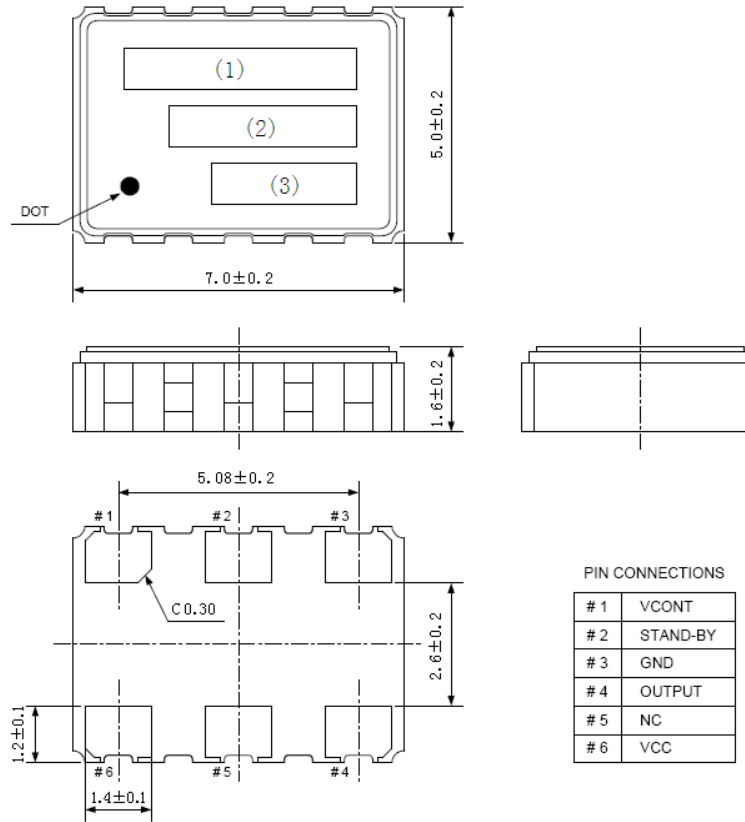
MODEL: V756-E311-122.88MHz						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency	122.88			MHz	
	Output Waveform	HCMOS				
	Output Low Voltage			0.33	V	$V_{cc}=3.3V, O_{load}=15\text{ pF}$
	Output High Voltage	2.97			V	$V_{cc}=3.3V, O_{load}=15\text{ pF}$
	Duty Cycle	45	50	55	%	@50%
	Rise / Fall Time (10%~90%)			5	ns	@25°C
	Load	15			pF	
Frequency Stabilities	Frequency Tolerance vs. Operating Temperature Range	-20		+20	$\times 10^{-6}$	T_A varied from -40°C to 85°C, measurement referenced to frequency observed with $T_A=25^\circ\text{C}, V_{cc}=3.3V, V_c=1.65V, O_{load}=15\text{pF}$, temperature variable speed less than 2°C per minute.
	Initial Frequency Tolerance	-10		+10	$\times 10^{-6}$	Measurement referenced to frequency observed with $T_A=25^\circ\text{C}, V_{cc}=3.3V, V_c=1.65V$ within 30 days after ex-works.
	Overall Stability	-35		+35	$\times 10^{-6}$	Inclusive of the following: - operating temperature -40°C to 85°C - Initial Frequency Tolerance ($T_A=25^\circ\text{C}$) - 3.3V $\pm 5\%$ - 15pF load $\pm 10\%$ - 1 years aging reference to nominal frequency
Power Supply	Current Consumption			40	mA	@25°C, $V_{cc}=3.3V, V_c=1.65V, O_{load}=15\text{pF}$.
	Supply Voltage	3.13	3.3	3.47	V	
Voltage Control Characteristics	Frequency Tuning Range	-150		-75	$\times 10^{-6}$	$V_c=0V$. measurement referenced to $V_c=1.65V$
		-10		+10	$\times 10^{-6}$	$V_c=1.65V$. measurement referenced to exactly 122.88MHz
		+75		+150	$\times 10^{-6}$	$V_c=3.3V$. measurement referenced to $V_c=1.65V$
	Linearity	-10		+10	%	
	Slope	Positive				
	Input Impedance	5			MΩ	



Phase Noise	Phase Noise			-60	dBc/Hz	10Hz
				-90		100Hz
				-120		1KHz
				-130		10KHz
				-140		100KHz
				-150		1MHz
				-150		10MHz
Environmental Conditions	Operable Temperature	-40		+85	°C	
	Storage Temperature	-50		+125	°C	
	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~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)

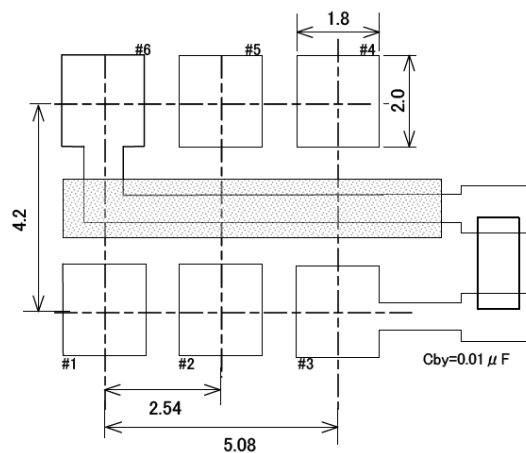


Note1: Marking : (1) Type
 (2) Nominal Frequency
 (3) Date Code Year and Week

Note2: Disable: $V_{il} \leq 0.1 V_{cc}$
 Enable: $V_{ih} \geq 0.9 V_{cc}$

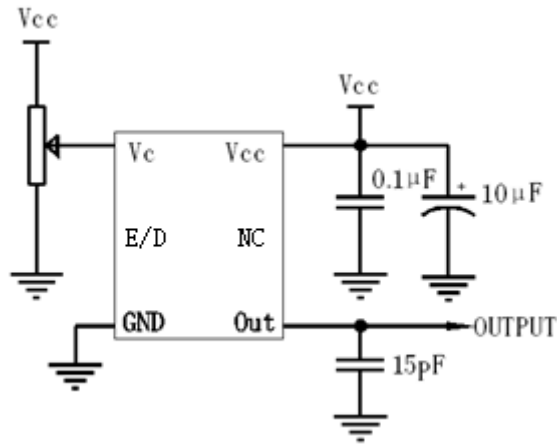
E/D	OUT
high level, open	data
low level	no data

Note3: Solder pad layout:

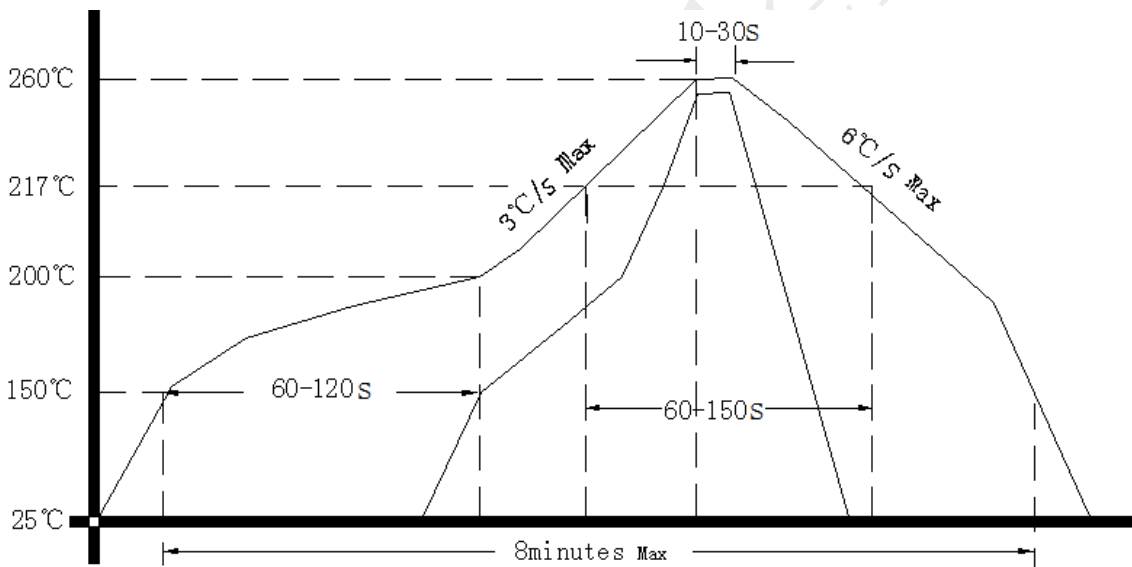




3. Test circuit



4. Reflow Soldering Curve (RoHS)



5. Package: Tape & Reel (mm)

