

Customer Code: _____

DATASHEET

DAPU P/N: T7050G-B01000-4.096MHz-N0

DAPU			Customer Approval
Drew	Audited	Approved	
Jieshu ZHENG	Jianhua LIN	Gangtao FENG	
Date:	2024/2/26		
			Stamp, please! Thanks!

Guangdong Dapu Telecom Technology Co.,Ltd

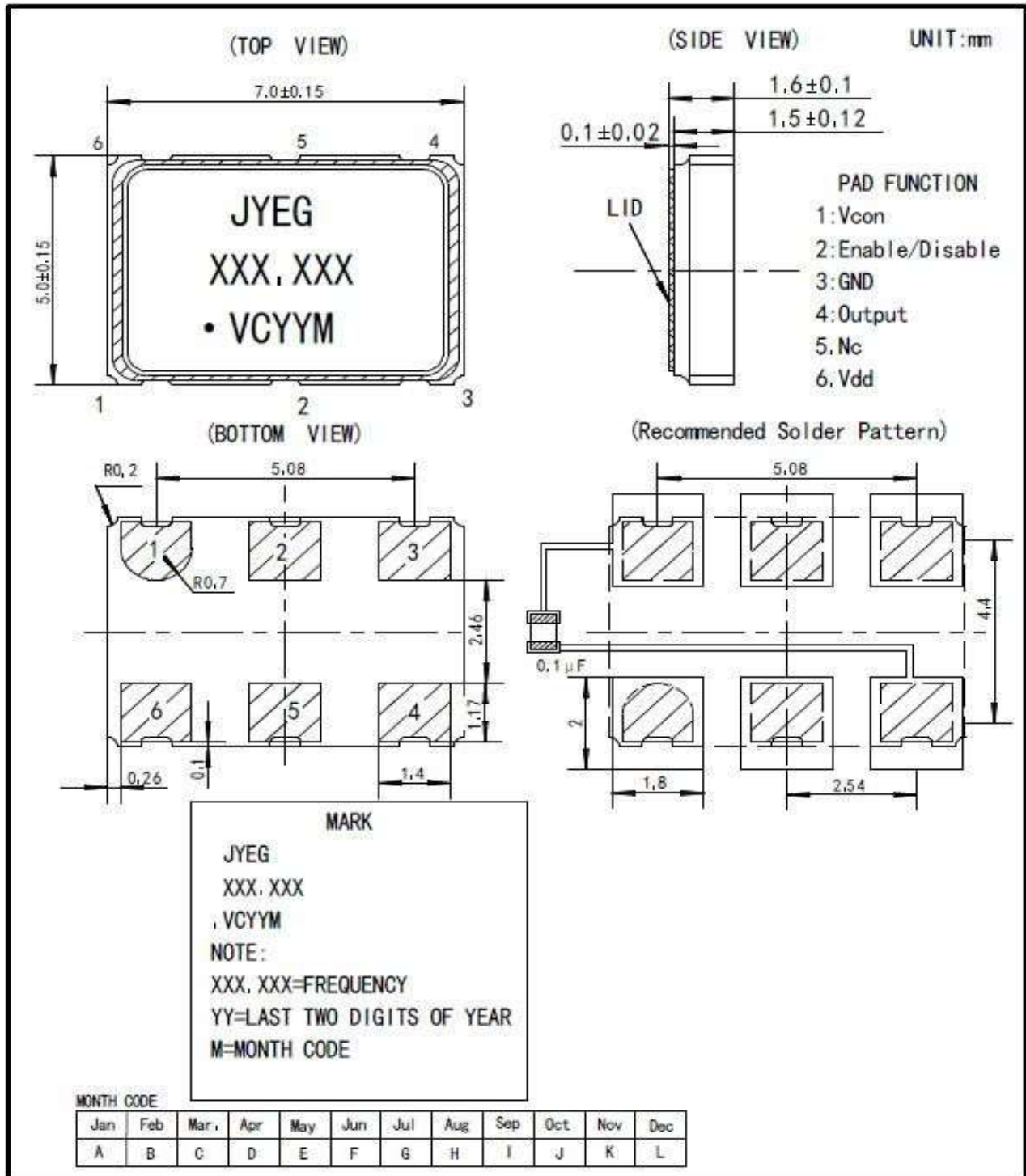
Bldg 5, SSL Modern Enterprise Accelerator Zone, Dongguan City, Guangdong Province, PRC China
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1、Electrical Parameter

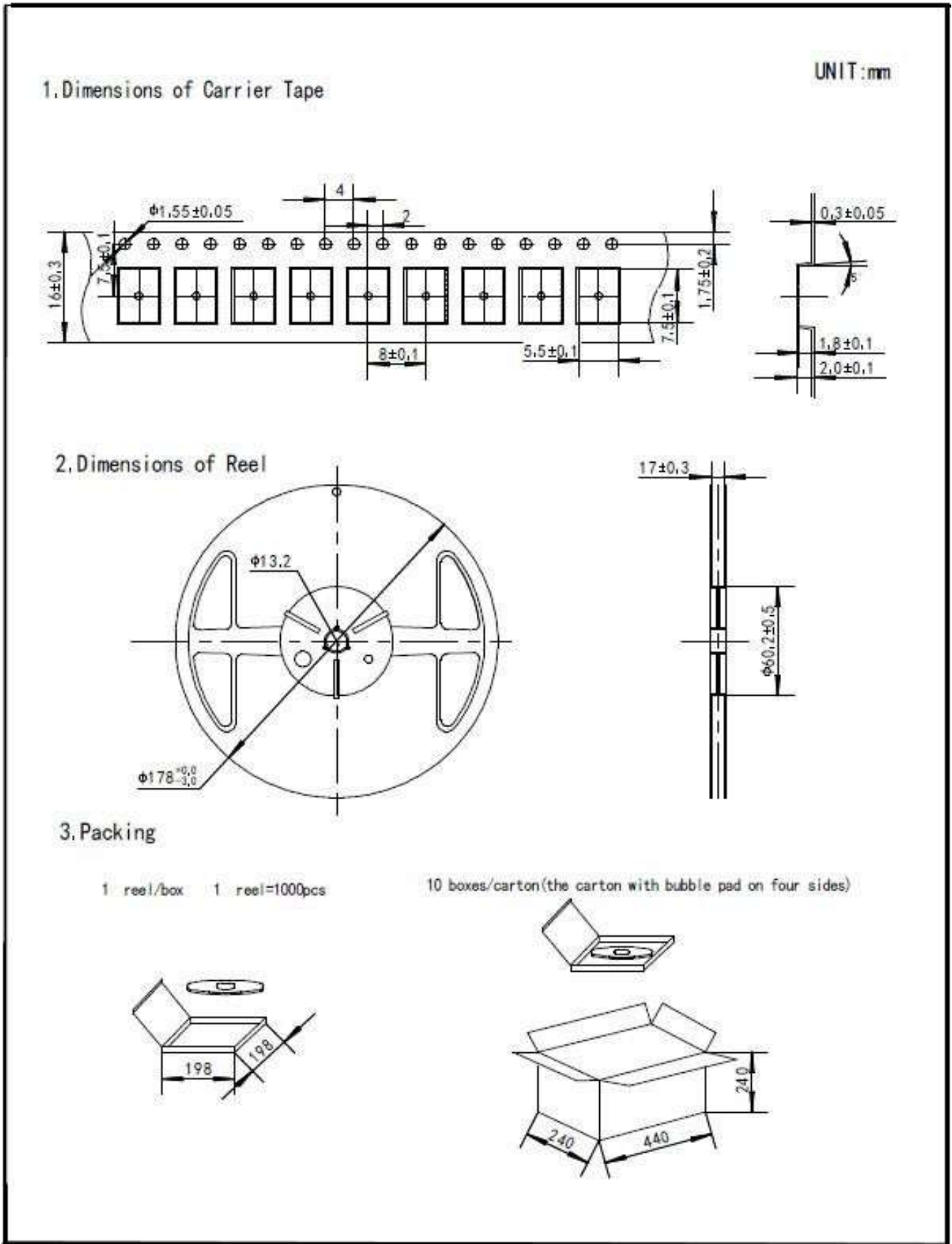
MODEL:	T7050G-B01000-4.096MHz-N0					
No.	Description	Parameters			Units	Test Condition
		Min.	Typ.	Max.		
Output	Frequency	4.096			MHz	
	Output Waveform	CMOS				
	High levels	0.9			Vdd	
	Low levels			0.1	Vdd	
	Symmetry	45	50	55	%	
	Rise / Fall time			5	ns	
	Load	15pF				
Frequency Stabilities	Total Stabilities	-25		25	$\times 10^{-6}$	$T_A=25^{\circ}C$, $V_{cc}=3.3V$, and after 1h of operation.
	Aging Tolerance 1 Year	-3		3	$\times 10^{-6}$	
	Aging Tolerance 15 Year	-10		10	$\times 10^{-6}$	
	Jitter RMS			0.8	ps	12kHz~20MHz
Power Supply	Current consumption			10	mA	@25°C, $V_{cc}=3.3V$, $O_{Load}=15pF$.
	Start up Time			3	ms	More than 90% of final output voltage
	Supply Voltage	2.970	3.30	3.630	V	$\pm 10\%$
Modulation Band Width	-	15	20		KHz	
Standby Function	YES					
Voltage Control	Control voltage	0.15		3.15	V	
	Absolute Pulling range	± 100			$\times 10^{-6}$	
	Linearity	-10		10	%	$V_c=0.15V$ to 3.15V
	Slope	Positive				
	VC Pin Input Impedance	5			MΩ	
Phase Noise	Phase Noise@25± 2°C			-65	dBc/Hz	10Hz
				-100		100Hz
				-130		1KHz
				-142		10KHz
				-150		100KHz
				-150		1MHz

Environmental Conditions	Operable Temperature	-40		85	°C	
	Storage Temperature	-55		125	°C	

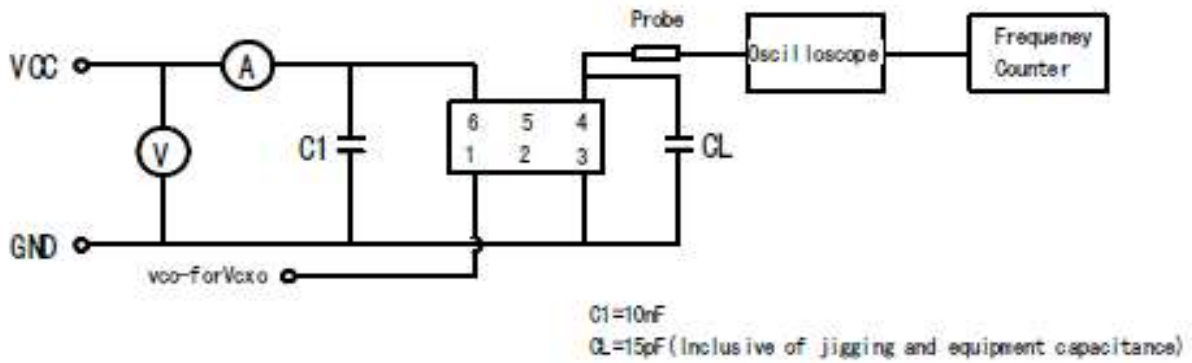
2、Mechanical Structure(mm)



3、Taping Dimension and Packing Instruction



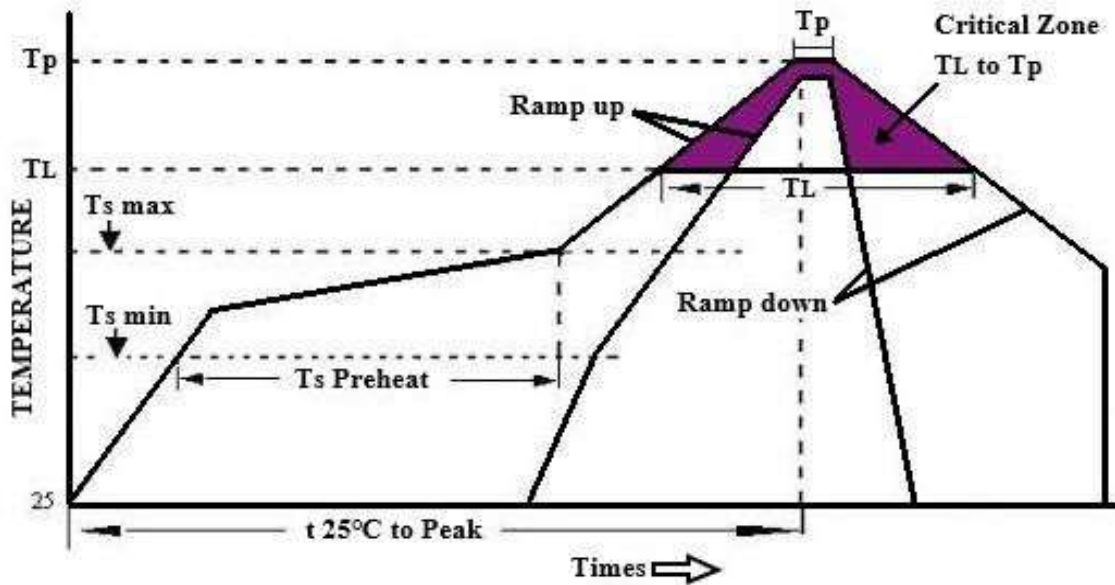
4、 Test circuit



ENABLE TRUTH TABLE

PIN 2 or PIN 5	PIN 4
Logic '1'	Output
Open	Output
Logic '0'	High Imp.

5、 Reflow Profile



High Temperature Infrared /Convection

Note:Temperature shown are applied to body of device

Ts max to T _L (Ramp-up Rate)	3°C/second max
Preheat	
Temperature Min(Ts Min)	150°C
Temperature Typical(Ts Typ)	175°C
Temperature Max.(Ts Max)	200°C
Time(ts)	60-180 seconds
Ram-up Rate(T _L to T _p)	3°C/second Max
Time Maintained Above:	
--Temperature(T _L)	217°C
--Time(T _L)	60-150seconds
Peak Temperature (T _p)	260°C Max for 10 seconds
Time within 5°C of actual peak(t _p)	20-40 seconds
Ramp-down Rate	6°C/seconds Max
Tune 25°C to Peak Temperature(t)	8 minutes Max
Moisture Sensitivity Level	Level 1

High Temperature Manual Soldering

Note:Temperature shown are applied to body of device

260°C Max for 10 seconds Max, 4 times Max