Travelling Merchant:_____

DATASHEET

Standard: **T21-0803-26.00MHz**

P/N: _____

Plot			The Label
Drew	Audited	Approved	
Amway.wei	Carry.Wang	Jason Zhao	
Date: 2024.07.18			Stamp, please! Thanks!

Guangdong Dapu Telecom Technology Co.,Ltd

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Table of amendment

Version	Revision contents	Prepared by	Revised date
1.0	The first issued	Amway	2024.07.18

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1. Electrical Parameters

MODEL： T21-0803-26.00MHz						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency	26.00			MHz	
	Output Waveform	Clipped Sine Wave				
	Vp-p	0.8			V	
	Load	10KΩ//10pF				
Frequency Stabilities	Initial accuracy	-1		+1	$\times 10^{-6}$	
	vs. Temperature Range	-2.5		+2.5	$\times 10^{-6}$	T_A varied from -40℃ to 95℃, measurement referenced to frequency observed with $f_{ref}=(f_{max}+f_{min})/2$, V_{cc}=1.8V, V_c=0.9V, O_{load}=10KΩ//10pF, temperature variable speed less than 2℃per minute.
	Frequency Tolerance vs. Supply Voltage	-0.2		+0.2	$\times 10^{-6}$	measurement referenced to frequency observed TA=25℃, Vcc varied from 1.70V to 1.90V, and O_{Load}=10KΩ//10pF
	Frequency Tolerance vs. Load	-0.2		+0.2	$\times 10^{-6}$	5% load change measurement referenced to frequency observed with T_A=25℃,V_{cc}=1.8V, and O_{Load}=10KΩ//10pF .
	DIP	-0.2		+0.2	$\times 10^{-6}$/℃	
	Aging Tolerance 1 Year	-0.8		+0.8	$\times 10^{-6}$	T_A=25℃, V_{cc}=1.8V, and after 1h of operation.
Power Supply	Operating Current			2	mA	@25℃, V_{cc}=1.8V
	Supply Voltage	1.70	1.80	1.90	V	
Phase Noise	Phase Noise@25℃		-88	-83	dBc/Hz	10Hz
			-113	-108		100Hz
			-135	-130		1KHz
			-151	-146		10KHz
			-154	-149		100KHz
			-154	-149		1MHz

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Voltage Control Characteristics	Frequency Tuning Range	-12		-8	$\times 10^{-6}$	V_c=0.3V. measurement referenced to V_c=0.9V
		-1		+1	$\times 10^{-6}$	V_c=0.9V. measurement referenced to exactly 26.00MHz
		+8		+12	$\times 10^{-6}$	V_c=1.5V. measurement referenced to V_c=0.9V
	Linearity			10	%	
	Slope	Positive				
	Input Impedance	500			KΩ	
Environmental Conditions	Operable Temperature	-40		+95	℃	
	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.				
Full Package Storage	Relative humidity (%)	20%～70%				
	Temperature (℃)	-10~35℃				

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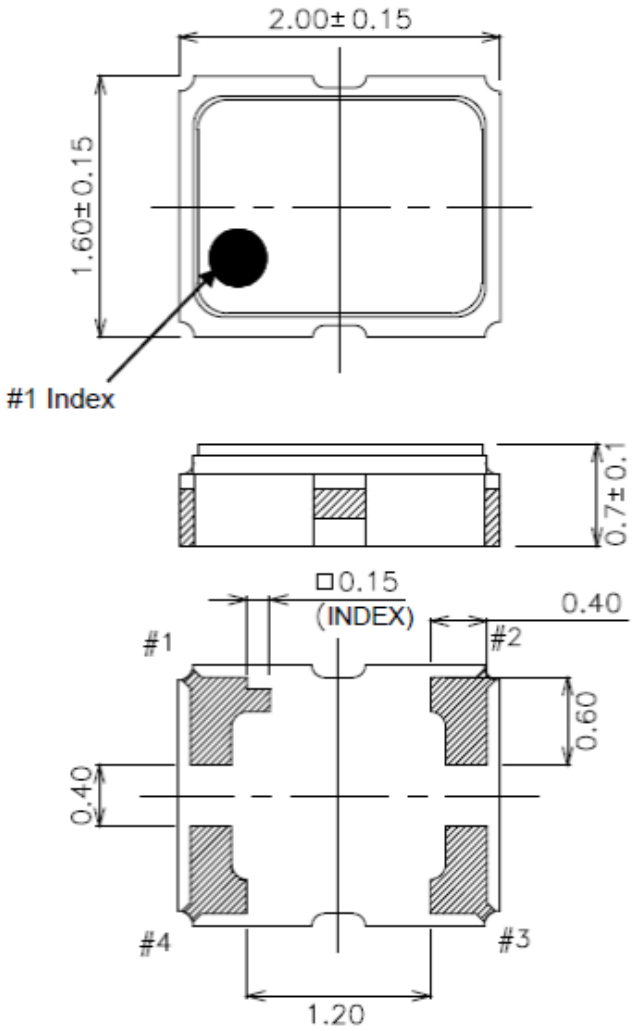
2. Mechanical Structure(mm)



Pin Connections

Pin No.	Connection
#1	Vcont
#2	GND
#3	Output
#4	V_{CC}

Note1: Tolerance ±0.2mm without mark

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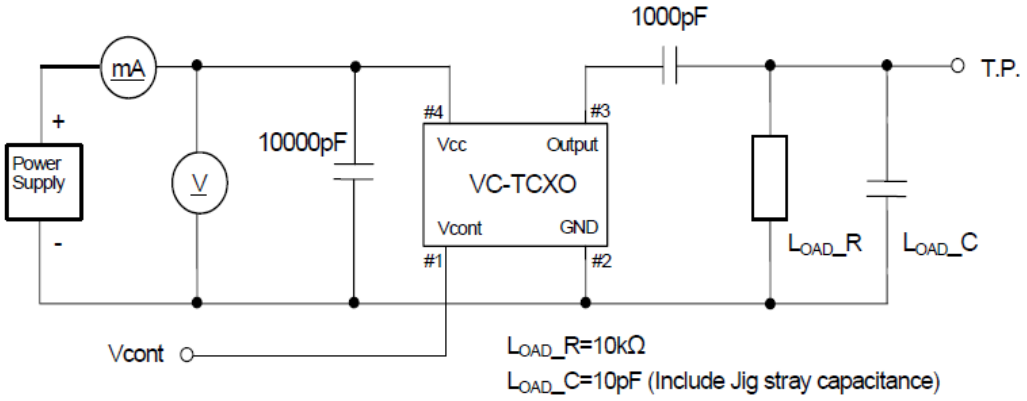
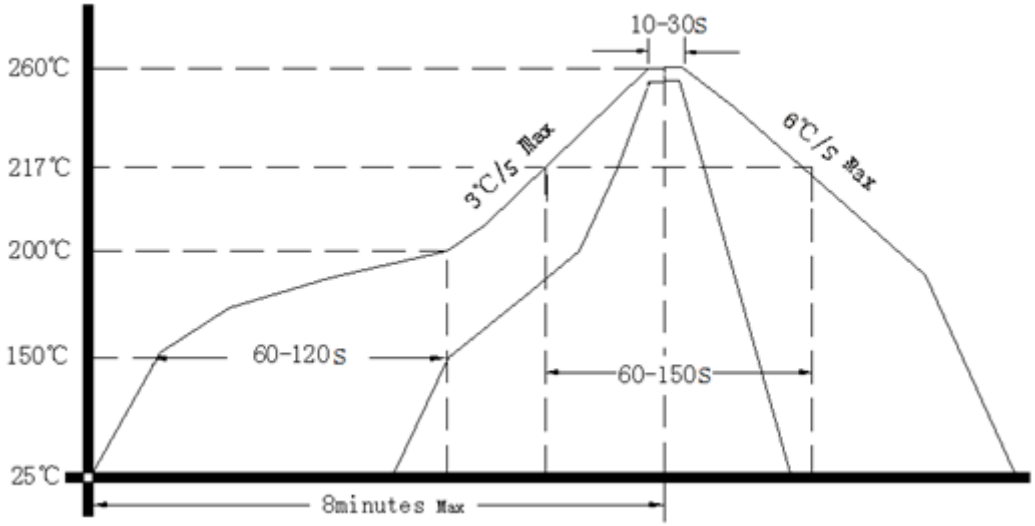
3. Test Circuit



4. Reflow Soldering Curve (RoHS)



5. Package: Tape & Reel (mm)