Travelling Merchant:_____

DATASHEET

Standard: **T22-A531-26.00MHz**

P/N: _____

Plot			The Label
Drew	Audited	Approved	
Amway.wei	Carry.Wang	Jason Zhao	
Date: 2020.11.03			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	2020.11.03

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1、Electrical Parameters

MODEL：T22-A531-26.00MHz						
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			
	Statr up time			2	ms	More than 90% of final amplitude
Frequency Stabilities	Frequency Tolerance vs. Operating Temperature Range	-2		+2	$\times 10^{-6}$	T_A varied from -30℃ to 85℃, measurement referenced to frequency observed with T_A= 25℃, V_{cc}=2.8V, V_c=1.4V, O_{load}=10KΩ//10pF, temperature variable speed less than 2℃per minute.
	Nominal Frequency Tolerance	-1		+1	$\times 10^{-6}$	Measurement referenced to frequency observed with T_A=25℃, V_{cc}=2.8V, V_c=1.4V within 30 days after ex-works.
	Frequency Tolerance vs. Supply Voltage	-0.2		+0.2	$\times 10^{-6}$	measurement referenced to frequency observed T_A=25℃, V_{cc} varied from 2.66V to 2.94V, V_c =1.4V and O_{Load}=10KΩ//10pF.
	Frequency Tolerance vs. Load	-0.2		+0.2	$\times 10^{-6}$	10% load change measurement referenced to frequency observed with T_A=25℃, V_{cc}=2.8V, V_c=1.4V and O_{Load}=10KΩ//10pF .
	Slope	-0.2		+0.2	$\times 10^{-6}$/℃	Temp -20℃ to 70℃,every 2℃.
	Reflow slodering	-1		+1	$\times 10^{-6}$	2 times,after reflow in 2h or more at room ambient.
	Aging Tolerance 1 Year	-1		+1	$\times 10^{-6}$	T_A=25℃, V_{cc}=2.8V, V_c=1.4V and after 1h of operation.
Power Supply	Operating Current			1.5	mA	@25℃, V_{cc}=2.8V, V_c=1.4V, O_{Load}=10KΩ//10pF.
	Supply Voltage	2.66	2.8	2.94	V	
Voltage Control	Frequency tuning range	-15		-9	$\times 10^{-6}$	V_c= 0.4 V. measurement referenced to V_c=1.4V.
		-1		+1	$\times 10^{-6}$	V_c=1.4V. measurement referenced to Exactly 26.00MHz.
		+9		+15	$\times 10^{-6}$	V_c=2.4V. measurement referenced to V_c=1.4V.

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Phase Noise	Phase Noise		-92		dBc/Hz	10Hz
			-116			100Hz
			-137			1KHz
			-144			10KHz
			-144			100KHz
Environmental Conditions	Operable Temperature	-30		+85	℃	
	Storage Temperature	-40		+85	℃	
	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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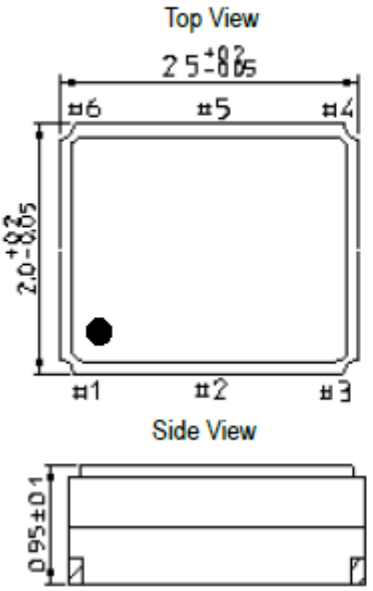
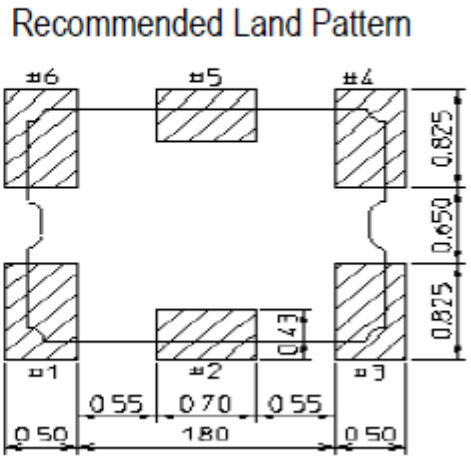
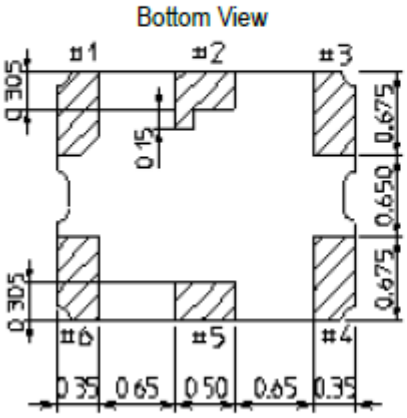
2、Mechanical Structure(mm)







Pad No.	Connection
#1	Vcont
#3	GND
#4	Output
#6	Vcc
#2,#5	N.C.

Note1: Tolerance ±0.1mm without mark

Note2: Referential weight 0.01g

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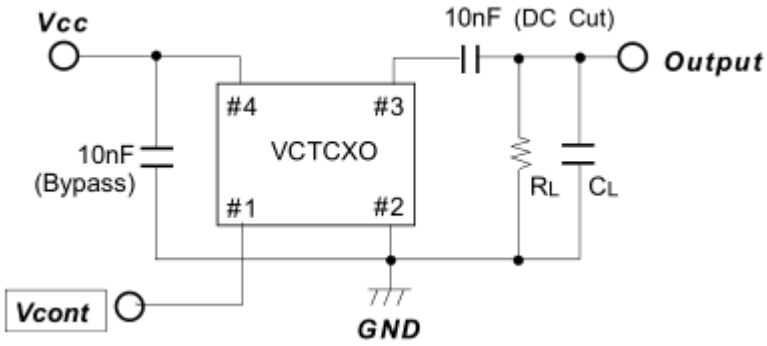
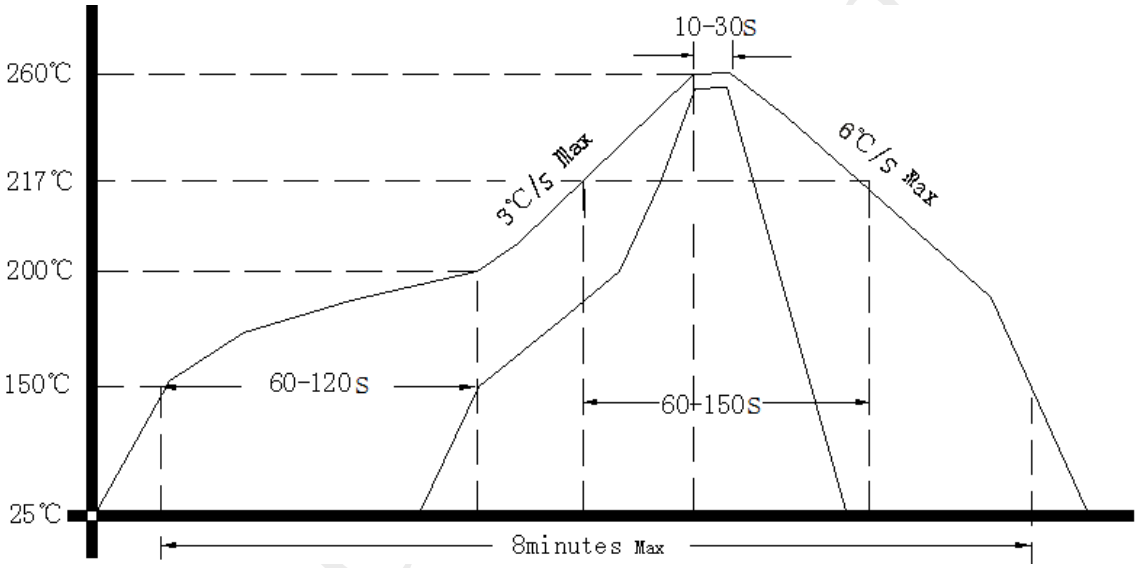
3、Test Circuit



4、Reflow Soldering Curve (RoHS)



Note: If soldering with a hot air gun, ensure the temperature ＜320℃， soldering time ＜15 seconds.

5、Package: Tape & Reel (mm)