Travelling Merchant:_____

DATASHEET

Standard: **T21-A573-26.00MHz**

P/N: _____

Plot			The Label
Drew	Audited	Approved	
Amway.wei	Carry . Wang	Jason Zhao	
Date: 2020.12.03			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	2020.11.16
1.1	The “Mechanical Structure” changed	Amway	2020.12.03

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1. Electrical Parameters

MODEL： T21-A573-26.00MHz						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency	26.00			MHz	
	Output Waveform	Clipped Sine Wave				
	Start up time			0.8	ms	Output amplitude>=350mV Within +/-20×10^{-6}
				1.5	ms	90% of final output amplitude Within +/-2×10^{-6}
				2.5	ms	95% of final output amplitude Within +/-0.1×10^{-6}
				5.0	ms	100% of final output amplitude Within +/-0.05×10^{-6}
	Vp-p	0.7		1.2	V	
	Harmonics			-20	dBc	2nd
				-10	dBc	3rd
				-60	dBc	34th,36th,>69th
				-18	dBc	Other
	Load	10KΩ//10pF				
Frequency Stabilities	Frequency Tolerance	-2		+2	×10^{-6}	@25℃
	vs. Temperature Range	-1.5		+1.5	×10^{-6}	T_A varied from -30℃ to 85℃, measurement referenced to frequency observed with T_A=25℃, 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	×10^{-6}	measurement referenced to frequency observed TA=25℃, Vcc varied from 1.70V to 1.90V, and OLoad=10KΩ//10pF

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Frequency Stabilities	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}=1.8V, and O_{Load}=10KΩ//10pF .
	Aging Tolerance Per Day	-0.02		+0.02	$\times 10^{-6}$	T_A=25℃, V_{cc}=1.8V, and after 1h of operation.
	Aging Tolerance 1 Year	-1		+1	$\times 10^{-6}$	
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℃			-108	dBc/Hz	100Hz
				-130	dBc/Hz	1KHz
				-145	dBc/Hz	10KHz
				-148	dBc/Hz	100KHz
				-148	dBc/Hz	1MHz
Voltage Control Characteristics	Frequency Tuning Range			-8	$\times 10^{-6}$	V_c=0.05V. measurement referenced to V_c=0.9V
		+7			$\times 10^{-6}$	V_c=1.5V. measurement referenced to V_c=0.9V
		+10.5			$\times 10^{-6}$	V_c=1.8V. measurement referenced to V_c=0.9V
	Tuning linearity deviation	-20		+20	%	Relative to mean df/dVcon
	Tuning sensitivity			16	$\times 10^{-6}$/V	
	Input Impedance	100			KΩ	
Environmental Conditions	Operable Temperature	-30		+85	℃	
	Storage Temperature	-40		+90	℃	
	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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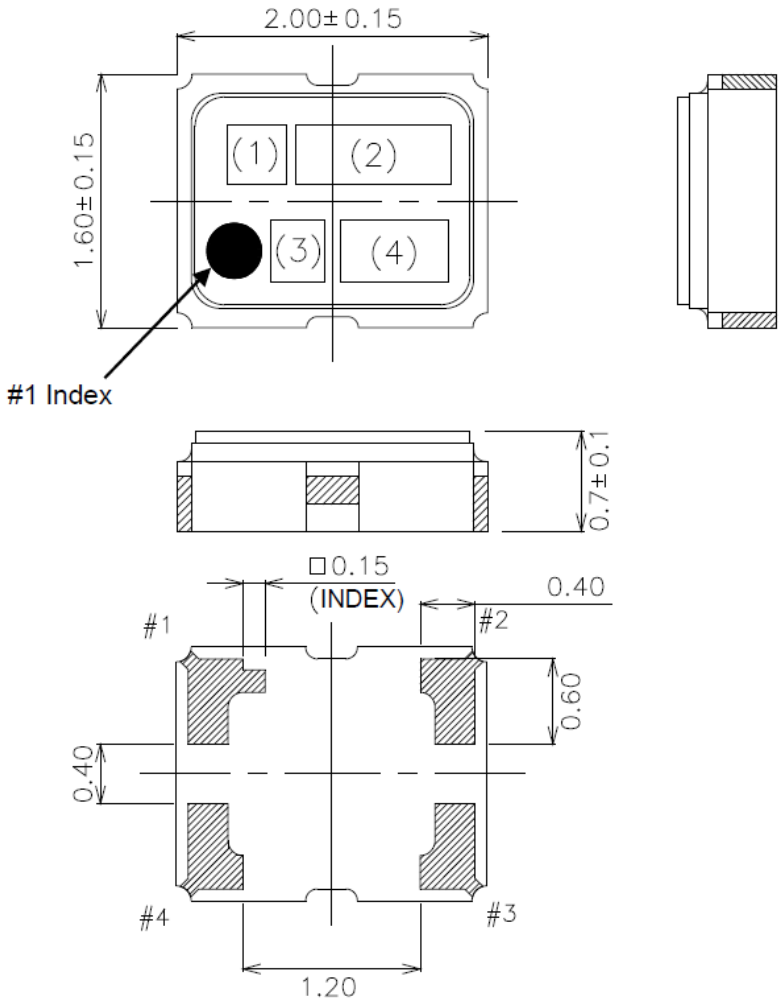
2. Mechanical Structure(mm)



Pin Connections

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

Marking

(1) Model code	AN
(2) Frequency	26.0 (MHz, 3digits)
(3) Logo	D
(4) Date code	Year (1digit) +Week (2digits)
	e.g.2017/1/1 → 701

unit: mm
Dimensional Tolerance: ±0.15
(Unless otherwise noted)

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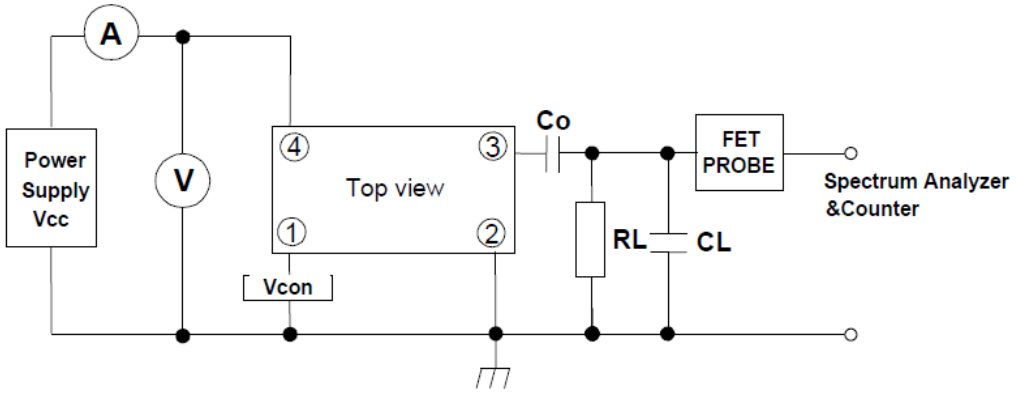
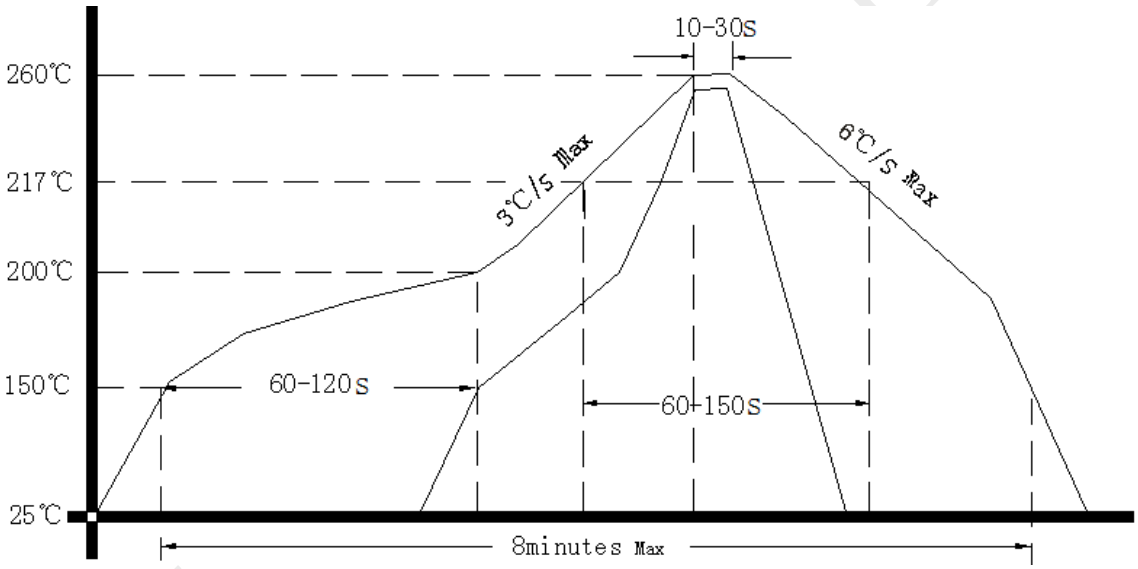
3. Test Circuit



4. Reflow Soldering Curve (RoHS)



5. Package: Tape & Reel (mm)