

Travelling Merchant: \_\_\_\_\_

# DATASHEET

Standard:     **T21-A573-32.00MHz**    

P/N: \_\_\_\_\_

Plot			The Label
Drew	Audited	Approved	Stamp, please! Thanks!
Date: 2021.06.11			

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### Table of amendment

Version	Revision contents	Prepared by	Revised date
1.0	The first issued	<i>Amway</i>	2021.06.11



## 1. Electrical Parameters

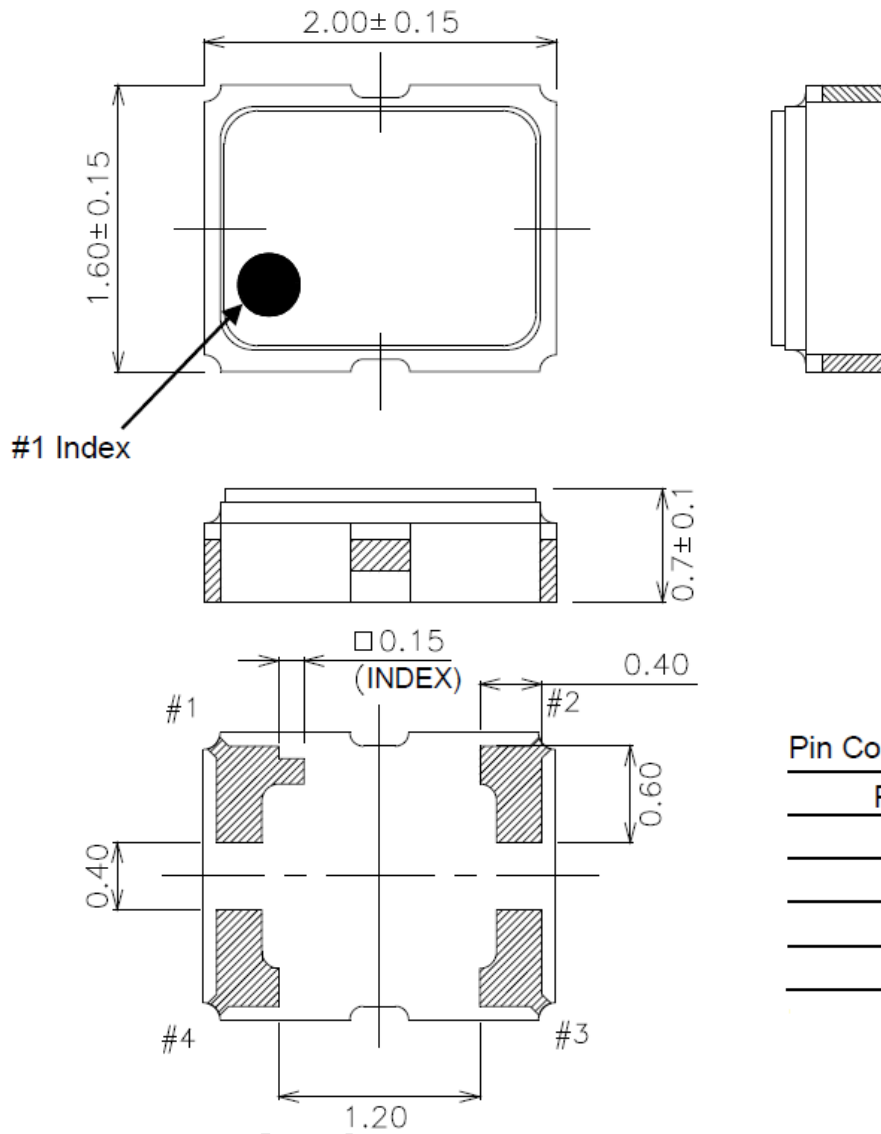
MODEL: T21-A573-32.00MHz						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency	32.00			MHz	
	Output Waveform	Clipped Sine Wave				
	Vp-p	0.8			V	
	Load	10KΩ//10pF				
Frequency Stabilities	Frequency Tolerance	-1.5		+1.5	$\times 10^{-6}$	@25°C
	vs. Temperature Range	-0.5		+0.5	$\times 10^{-6}$	T <sub>A</sub> varied from -30°C to 85°C, measurement referenced to frequency observed with f <sub>ref</sub> =(f <sub>max</sub> +f <sub>min</sub> )/2, V <sub>cc</sub> =1.8V, V <sub>c</sub> =0.9V, O <sub>load</sub> =10KΩ//10pF, temperature variable speed less than 2°C per minute.
	Frequency Tolerance vs. Supply Voltage	-0.2		+0.2	$\times 10^{-6}$	measurement referenced to frequency observed T <sub>A</sub> =25°C, V <sub>cc</sub> varied from 1.70V to 1.90V, and O <sub>Load</sub> =10KΩ//10pF, V <sub>c</sub> =0.9V
	Frequency Tolerance vs. Load	-0.2		+0.2	$\times 10^{-6}$	10% load change measurement referenced to frequency observed with T <sub>A</sub> =25°C, V <sub>cc</sub> =1.8V, and O <sub>Load</sub> =10KΩ//10pF.
	Aging Tolerance Per Day	-0.02		+0.02	$\times 10^{-6}$	T <sub>A</sub> =25°C, V <sub>cc</sub> =1.8V, and after 1h of operation.
	Aging Tolerance 1 Year	-1		+1	$\times 10^{-6}$	
Power Supply	Operating Current			2	mA	@25°C, V <sub>cc</sub> =1.8V
	Supply Voltage	1.70	1.80	1.90	V	



Phase Noise	Phase Noise@25°C			-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			-8.0	$\times 10^{-6}$	$V_c=0.3V$ . measurement referenced to $V_c=0.9V$
		-1.5		+1.5	$\times 10^{-6}$	$V_c=0.9V$ . measurement referenced to exactly 32.00MHz
		+8.0			$\times 10^{-6}$	$V_c=1.5V$ . measurement referenced to $V_c=0.9V$
	Input Impedance	100			K $\Omega$	
Environmental Conditions	Operable Temperature	-30		+85	°C	
	Storage Temperature	-40		+85	°C	
	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 (°C)	-10~35°C				



## 2. Mechanical Structure(mm)

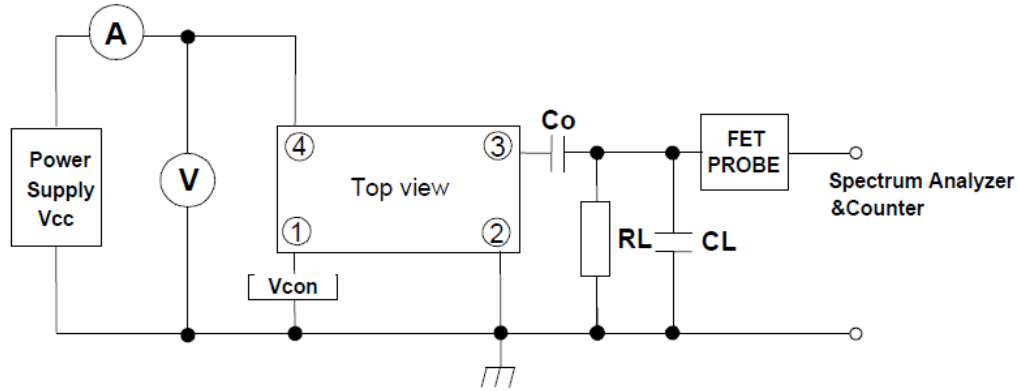


Pin Connections

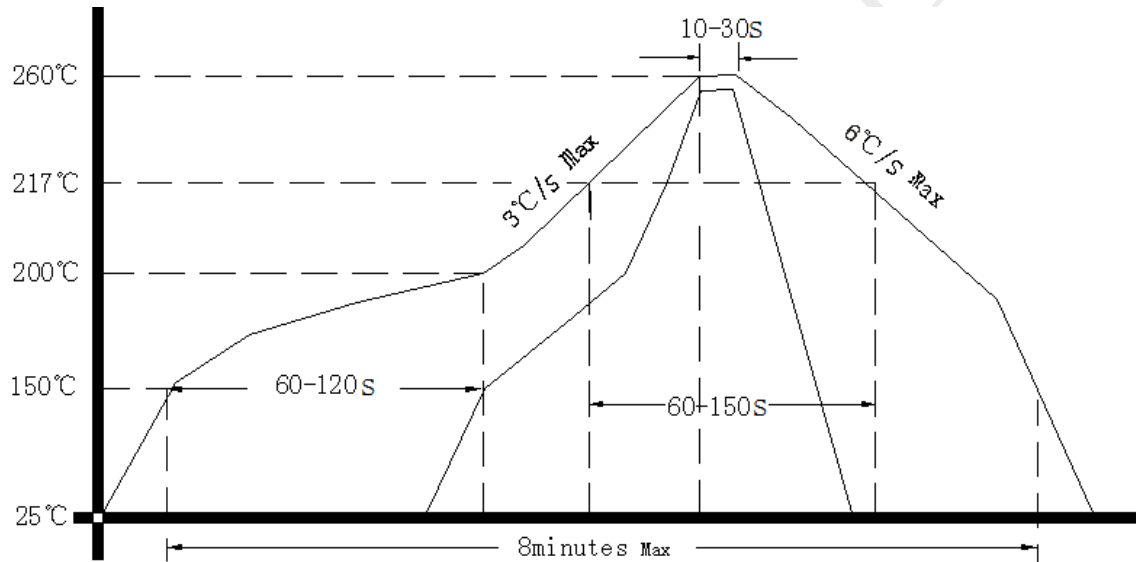
Pin No.	Connection
#1	V <sub>CONT</sub>
#2	GND
#3	Output
#4	V <sub>CC</sub>



### 3. Test Circuit



### 4. Reflow Soldering Curve (RoHS)



### 5. Package: Tape & Reel (mm)

