

Travelling Merchant: _____

DATASHEET

Standard: **T32-0801-24.00MHz**

P/N: _____

Plot			The Label
Drew	Audited	Approved	Stamp, please! Thanks!
Date: 2024.01.31			

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Table of amendment

Version	Revision contents	Prepared by	Revised date
1.0	The first issued	<i>Amway</i>	2022.12.21
1.1	The “Mechanical Structure” changed	<i>Amway</i>	2024.01.31



1. Electrical Parameters

MODEL: T32-0801-24.00MHz						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency	24.00			MHz	
	Output Waveform	Clipped Sine Wave				
	Vp-p	0.8			V	
	Duty Cycle	40	50	60	%	@50%
	Harmonics Suppression			-5	dBc	
	Load	10KΩ//10pF				
	Start-up Time			2	ms	
Frequency Stabilities	Frequency Tolerance vs. Operating Temperature Range	-0.5		+0.5	$\times 10^{-6}$	T_A varied from -30°C to 85°C , measurement referenced to frequency observed with $T_A=25^{\circ}\text{C}$, $V_{cc}=1.8\text{V}$, $O_{load}=10\text{K}\Omega//10\text{pF}$, temperature variable speed less than 2°C per minute.
		-2.5		+2.5	$\times 10^{-6}$	T_A varied from -40°C to -30°C , measurement referenced to frequency observed with $T_A=25^{\circ}\text{C}$, $V_{cc}=1.8\text{V}$, $O_{load}=10\text{K}\Omega//10\text{pF}$, temperature variable speed less than 2°C per minute.
	Nominal Frequency Tolerance	-1.5		+1.5	$\times 10^{-6}$	@ 25°C , $V_{cc}=1.8\text{V}$, after 2 times reflow Ref. to before reflow frequency.
	Frequency Tolerance vs. Supply Voltage	-0.2		+0.2	$\times 10^{-6}$	measurement referenced to frequency observed $T_A=25^{\circ}\text{C}$, V_{cc} varied from 1.7V to 1.9V, and $O_{Load}=10\text{K}\Omega//10\text{pF}$.
	Frequency Tolerance vs. Load	-0.2		+0.2	$\times 10^{-6}$	10% load change measurement referenced to frequency observed with $T_A=25^{\circ}\text{C}$, $V_{cc}=1.8\text{V}$, and $O_{Load}=10\text{K}\Omega//10\text{pF}$.
Aging Tolerance 1 Year	-1		+1	$\times 10^{-6}$	$T_A=25^{\circ}\text{C}$, $V_{cc}=1.8\text{V}$, and after 1h of operation.	
Power Supply	Operating Current			1.5	mA	@ 25°C , $V_{cc}=1.8\text{V}$, $O_{Load}=10\text{K}\Omega//10\text{pF}$.
	Supply Voltage	1.7	1.8	1.9	V	

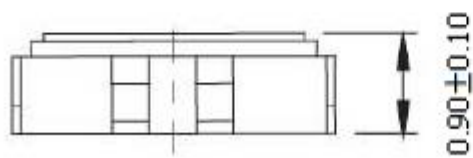
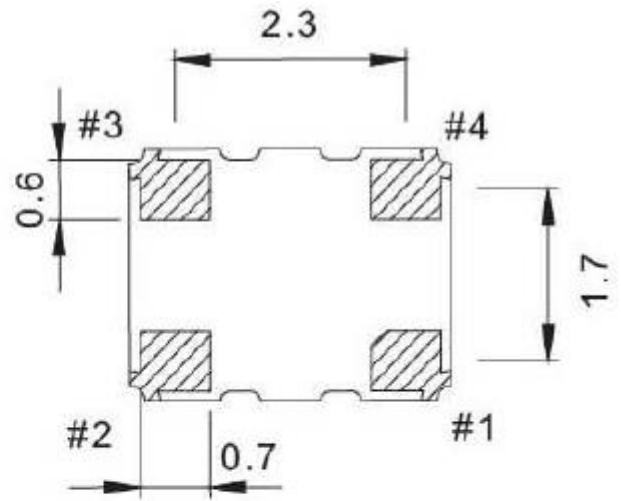
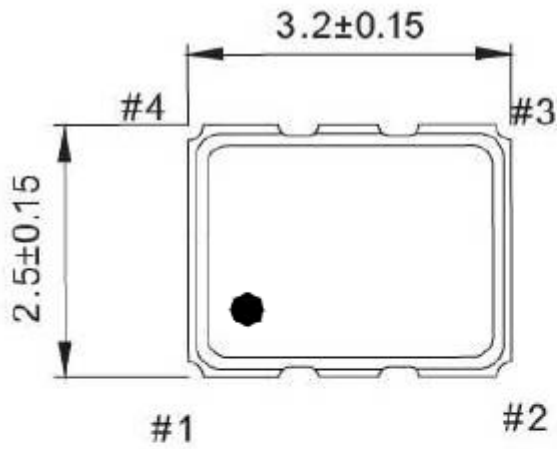


Phase Noise	Phase Noise @25°C			-130	dBc/Hz	1KHz
Environmental Conditions	Operable Temperature	-40		+85	°C	
	Storage Temperature	-55		+105	°C	
	ESD Level	Human Body Model,class2: 2000V to 4000V; ANSI/ESDA/JEDEC JS-001-2010.				
		Machine Model, class B: 200V to 400V; JEDEC JESD22-A115C				
	Moisture Sensitivity Level	Level 1.				
	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.					

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2. Mechanical Structure(mm)



PIN FUNCTION

PIN	FUNCTION
1	NC
2	GND
3	OUTPUT
4	VCC

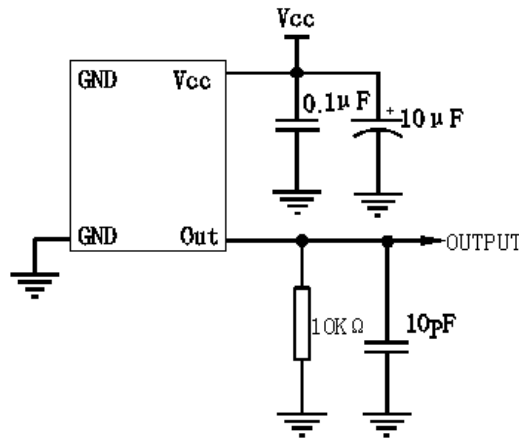
Note1: Tolerance $\pm 0.2\text{mm}$ without mark

Note2: Referential Weight 0.02g

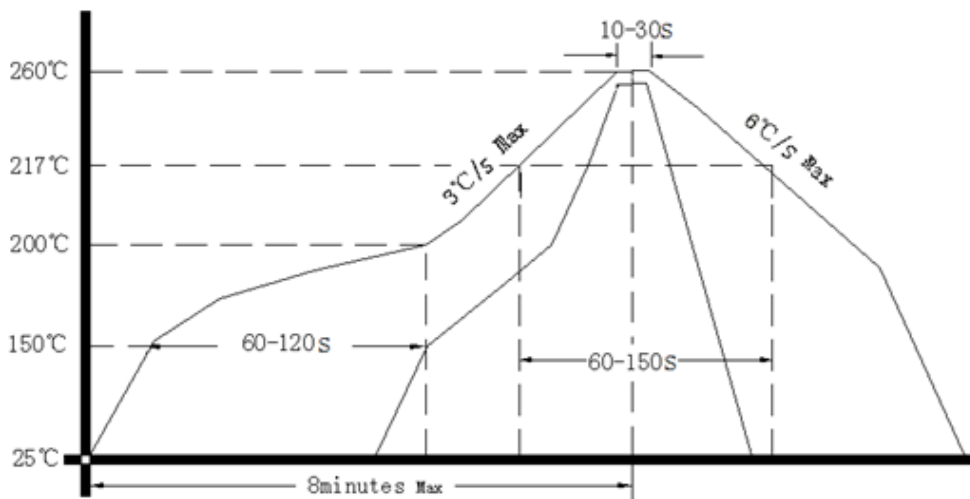
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3. Test Circuit



4. Reflow Soldering Curve (RoHS)



5. Package: Tape & Reel (mm)

