

Travelling Merchant: _____

DATASHEET

Standard: **T32-B519-16.384MHz**

P/N:

Plot			The Label
Drew	Audited	Approved	Stamp, please! Thanks!
Date: 2023.01.09			

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1. Electrical Parameters

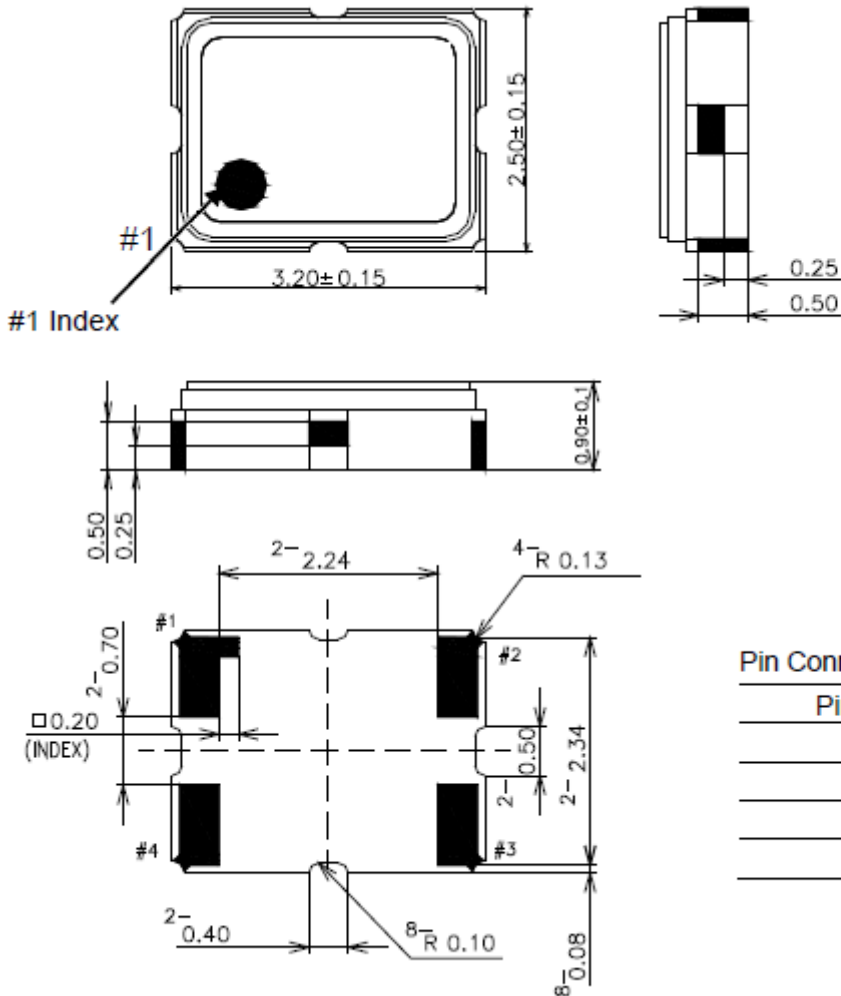
MODEL: T32-B519-16.384MHz						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency	16.384			MHz	
	Output Waveform	Clipped Sine Wave				
	V _{p-p}	0.8			V	
	Startup time			2	ms	@90% of final V _{out} level
	Symmetry	40		60	%	GND level(DC cut)
	Harmonics			-5	dBc	
	Load	10KΩ//10pF				
Frequency Stabilities	Tolerance	-1.5		+1.5	× 10 ⁻⁶	T _A =25°C, After 2 times reflow, Ref. to nominal frequency, leave after reflow in 2h or more at room ambient.
	Temperature Stability	-0.5		+0.5	× 10 ⁻⁶	T _A = -30°C to 85°C, Ref. to Frequency T _A =25°C.
		-2		+2	× 10 ⁻⁶	T _A = -40°C to -30°C, Ref. to Frequency T _A =25°C.
	Frequency Tolerance vs. Supply Voltage	-0.2		+0.2	× 10 ⁻⁶	Measurement referenced to frequency observed T _A =25°C, V _{cc} ±5% and O _{Load} =10KΩ//10pF.
	Frequency Tolerance vs. Load	-0.2		+0.2	× 10 ⁻⁶	10% load change measurement referenced to frequency observed with T _A =25°C, V _{cc} ±5%, O _{Load} =10KΩ//10pF.
	Aging	-1		+1	× 10 ⁻⁶	@25°C, Per year.
	Phase Noise				-89	dBc/Hz
				-114	@ 100Hz	
				-136	@ 1KHz	
				-149	@ 10KHz	
Power Supply	Current Consumption		1	1.5	mA	@25°C, V _{cc} ±5%, O _{load} =10KΩ//10pF.
	Supply Voltage	3.135	3.3	3.465	V	



Environmental Conditions	Operable Temperature	-40		+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 hours. (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)



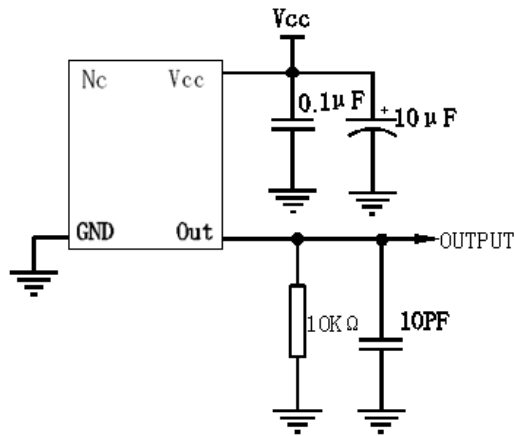
Pin Connections

Pin No.	Connection
#1	NC
#2	GND
#3	Output
#4	Vcc

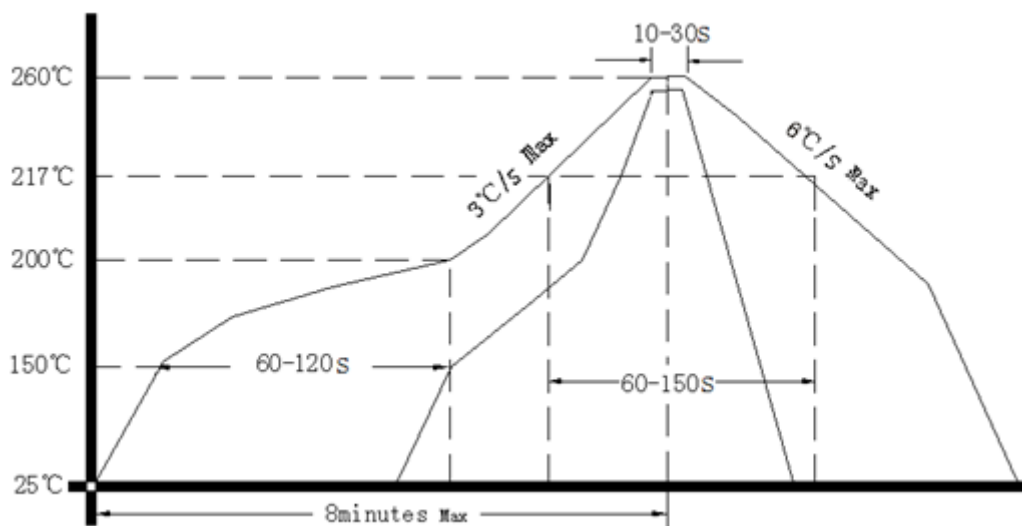
Note1: Tolerance ± 0.15 mm without mark



3. Test Circuit



4. Reflow Soldering Curve (RoHS)



5. Package: Tape & Reel (mm)

