

Travelling Merchant: _____

DATASHEET

Standard: **T22-S519-38.40MHz-A**

P/N:

Plot			The Label
Drew	Audited	Approved	Stamp, please! Thanks!
Date: 2024.04.07			

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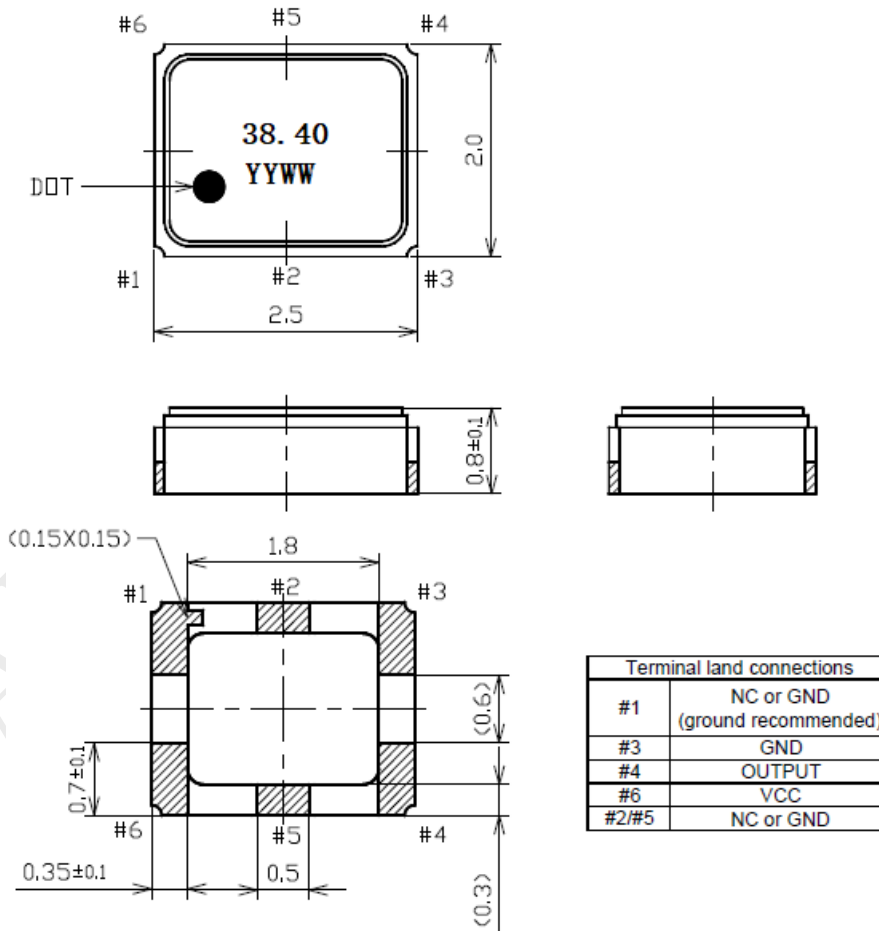
1. Electrical Parameters

MODEL: T22-S519-38.40MHZ-A						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency	38.40			MHz	
	Output Waveform	Clipped Sine Wave				DC Coupled
	Vp-p	0.8			V	
	Start Up Time			2	ms	Frequency within ± 0.5 ppm of steady state frequency
	Load	10K Ω //10pF				
Frequency Stabilities	Frequency Tolerance	-1.0		+1.0	$\times 10^{-6}$	@25°C+/-2°C
	Temperature Stability	-0.5		+0.5	$\times 10^{-6}$	T _A varied from -40°C to 85°C, measurement referenced to frequency observed with f _{ref} =(f _{max} +f _{min})/2, V _{cc} =3.3V, O _{load} =10K Ω //10pF, temperature variable speed less than 2°C per minute.
	Frequency Tolerance vs. Supply Voltage	-0.1		+0.1	$\times 10^{-6}$	Measurement referenced to frequency observed T _A =25°C, V _{cc} \pm 5% and O _{Load} =10K Ω //10pF.
	Frequency Tolerance vs. Load	-0.2		+0.2	$\times 10^{-6}$	10% load change measurement referenced to frequency observed with T _A =25°C, V _{cc} \pm 5%, O _{Load} =10K Ω //10pF.
	Reflow Variation	-1.0		+1.0	$\times 10^{-6}$	After two consecutive reflows as per profile shown and 1hr recovery @ 25°C
	Aging first years	-1.0		+1.0	$\times 10^{-6}$	T _A =25°C
Power Supply	Current Consumption			2	mA	@25°C, V _{cc} \pm 5%, O _{load} =10K Ω //10pF.
	Supply Voltage	3.135	3.3	3.465	V	
Phase Noise	Phase Noise			-57	dBc/Hz	1Hz
				-88		10Hz
				-109		100Hz
				-132		1KHz
				-149		10KHz
				-150		100KHz



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)

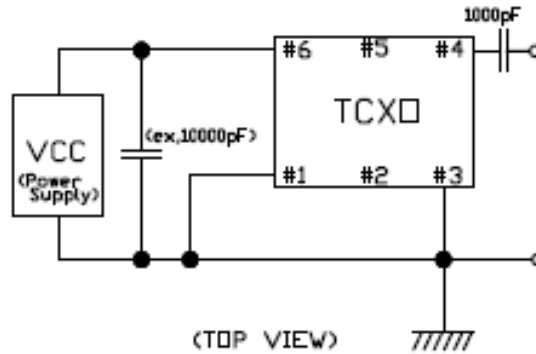


Note1: Tolerance ±0.15mm without mark

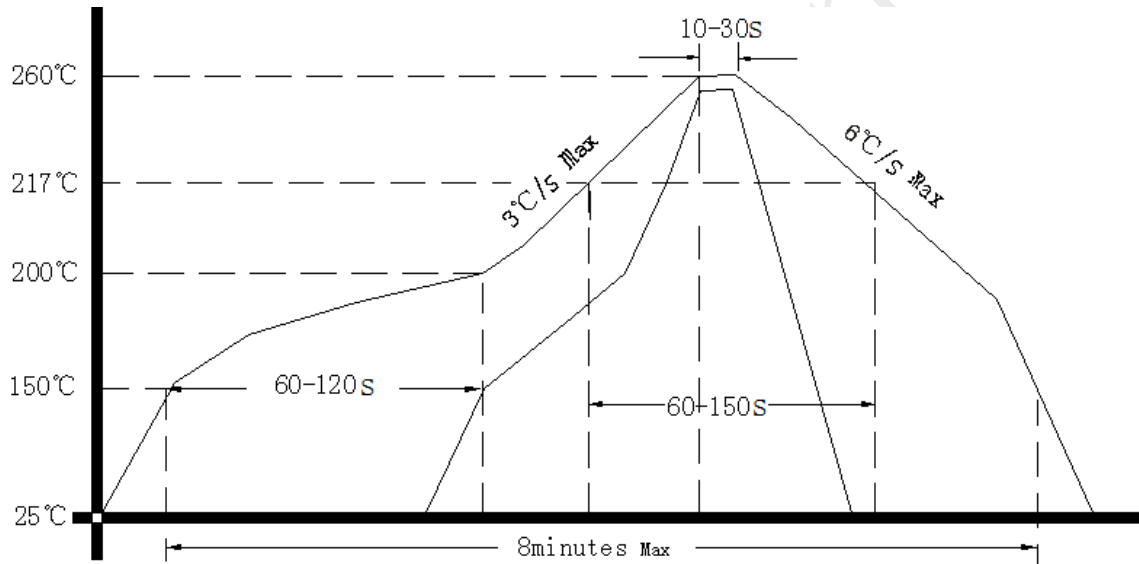
Note2: The first two YY representative: year, After two WW representative: week



3. Test Circuit



4. Reflow Soldering Curve (RoHS)



5. Package: Tape & Reel (mm)

