

Travelling Merchant: _____

DATASHEET

Standard: **T32-A519-25.00MHz-A**

P/N: _____

Plot			The Label
Drew	Audited	Approved	Stamp, please! Thanks!
Date: 2021.07.02			

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1. Electrical Parameters

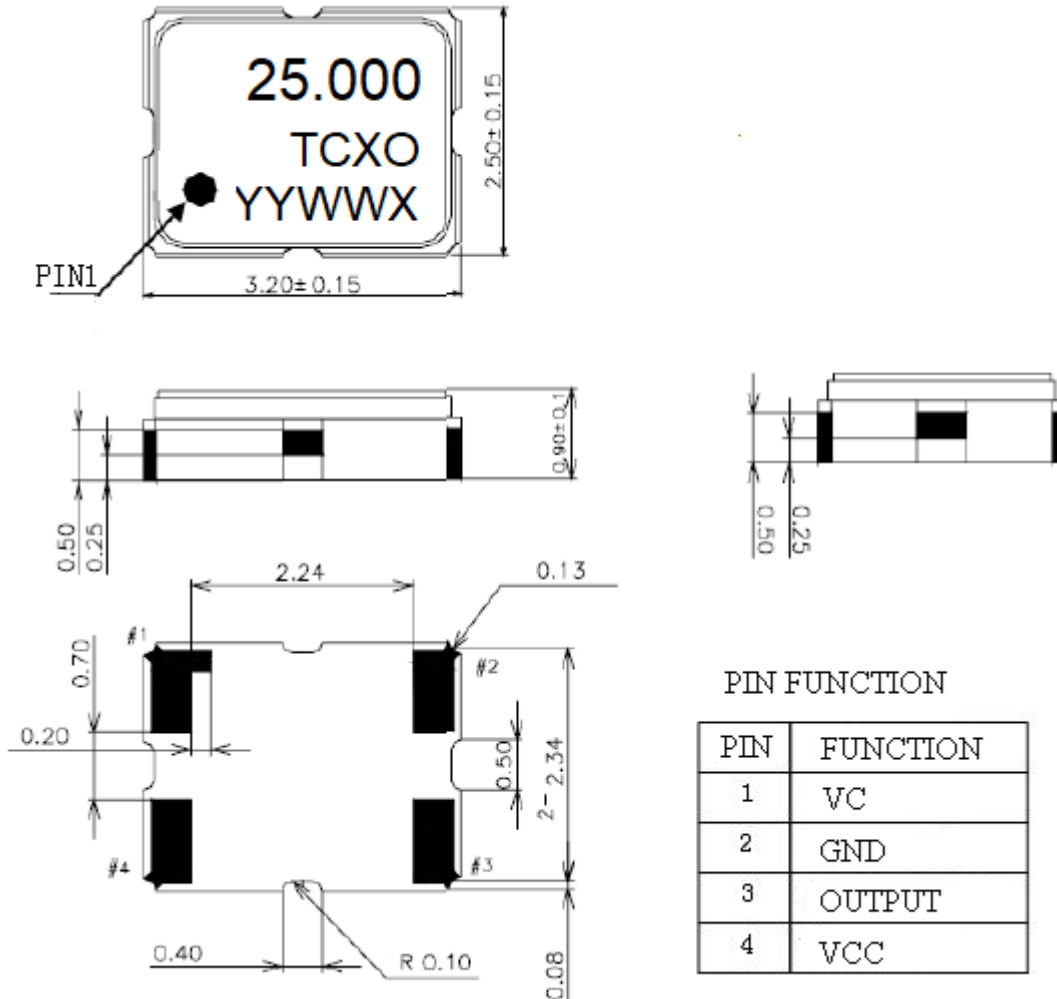
MODEL: T32-A519-25.00MHz-A						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency	25.00			MHz	
	Output Waveform	Clipped Sine Wave				
	V _{p-p}	0.8			V	
	Load	10KΩ//10pF				
Frequency Stabilities	Frequency Tolerance vs. Operating Temperature Range	-2		+2	× 10 ⁻⁶	T _A varied from -40°C to 85°C, measurement referenced to frequency observed with T _A =25°C, V _{cc} =3.3V, O _{load} =10KΩ//10pF, temperature variable speed less than 2°C per minute.
	Nominal Frequency Tolerance	-1		+1	× 10 ⁻⁶	Measurement referenced to frequency observed with T _A =25°C, V _{cc} =3.3V, V _c =1.5V within 30 days after ex-works.
	Frequency Tolerance vs. Supply Voltage	-0.2		+0.2	× 10 ⁻⁶	measurement referenced to frequency observed T _A =25°C, V _{cc} varied from 3.13V to 3.47V, V _c =1.5V and O _{Load} =10KΩ//10pF.
	Frequency Tolerance vs. Load	-0.2		+0.2	× 10 ⁻⁶	5% load change measurement referenced to frequency observed with T _A =25°C, V _{cc} =3.3V, V _c =1.5V and O _{Load} =10KΩ//10pF.
	Aging Tolerance Per Day	-0.02		+0.02	× 10 ⁻⁶	T _A =25°C, V _{cc} =3.3V, V _c =1.5V and after 1h of operation.
	Aging Tolerance 1 Year	-1		+1	× 10 ⁻⁶	
Power Supply	Operating Current			2	mA	@25°C, V _{cc} =3.3V, V _c =1.5V, O _{Load} =10KΩ//10pF.
	Supply Voltage	3.13	3.3	3.47	V	
Phase Noise	Phase Noise		-80	-75	dBc/Hz	10Hz
			-108	-103		100Hz
			-133	-128		1KHz
			-145	-140		10KHz
			-150	-145		100KHz
			-150	-145		1MHz



Voltage Control	Frequency tuning range			-5	$\times 10^{-6}$	$V_c=0.5V$. measurement referenced to $V_c=1.5V$.
		-1		+1	$\times 10^{-6}$	$V_c=1.5V$. measurement referenced to Exactly 25.00MHz.
		+5			$\times 10^{-6}$	$V_c=2.5V$. measurement referenced to $V_c=1.5V$.
	Slope	Positive				
	Linearity			10	%	
	Input Impedance	500			$K\Omega$	
Environmental Conditions	Operable Temperature	-40		+85	$^{\circ}C$	
	Storage Temperature	-55		+105	$^{\circ}C$	
	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.					



2. Mechanical Structure(mm)



PIN FUNCTION

PIN	FUNCTION
1	VC
2	GND
3	OUTPUT
4	VCC

Note1: Tolerance ± 0.15 mm without mark

Note2: Referential Weight 0.1g

Note3: Silk screen Description:

Font: Arial, placed in the middle, laser engraving

25.000: word height 0.6mm, crystal frequency

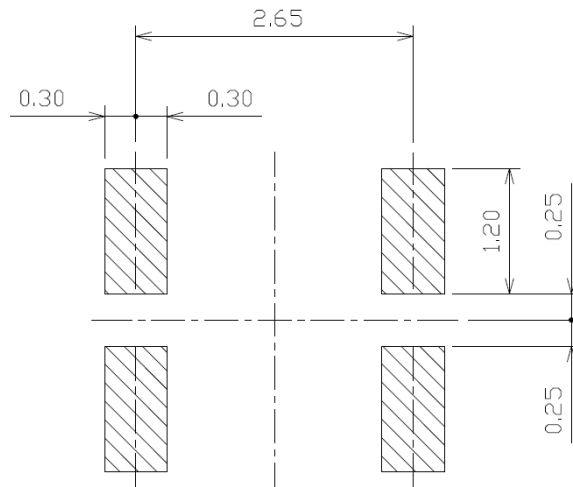
TCXO: word height 0.4mm, temperature compensation crystal oscillator

YYWWX: word height 0.4mm

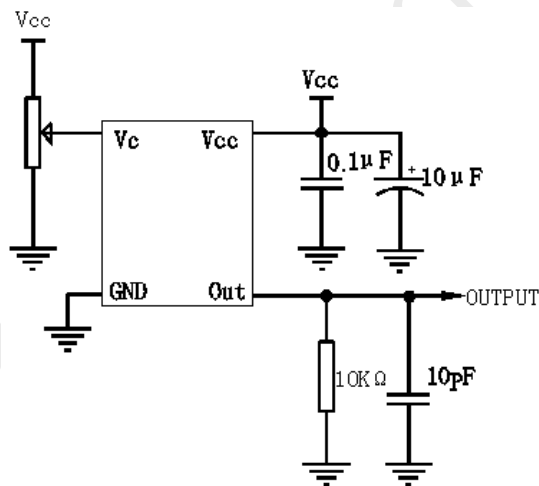
YY: production year, WW: production weeks, X: manufacturer code (allocated on demand)



3. Land Pattern Layout(mm)

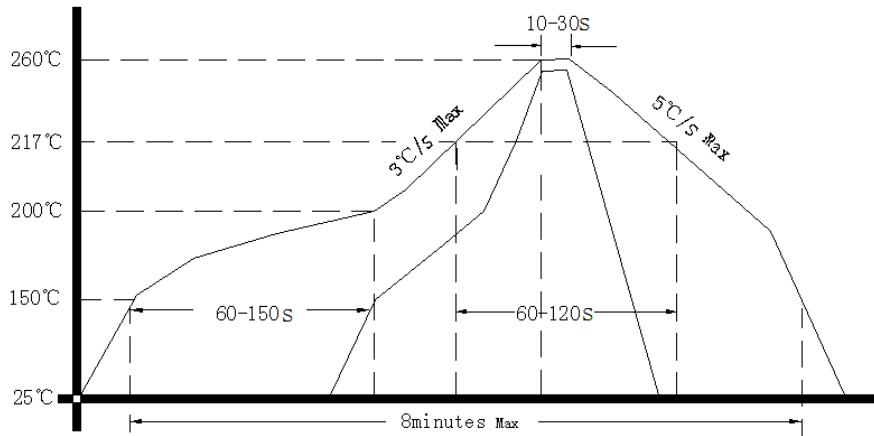


4. Test Circuit





5. Reflow Soldering Curve (RoHS)



6. Package: Tape & Reel (mm)

