

Travelling Merchant: _____

DATASHEET

Standard: **T32-Q519-25.00MHz**

P/N: _____

Plot			The Label
Drew	Audited	Approved	Stamp, please! Thanks!
Date: 2018.02.26			

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Table of amendment

Version	Revision contents	Prepared by	Revised date
1.0	The first issued	<i>Amway</i>	2018.02.26

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1. Electrical Parameters

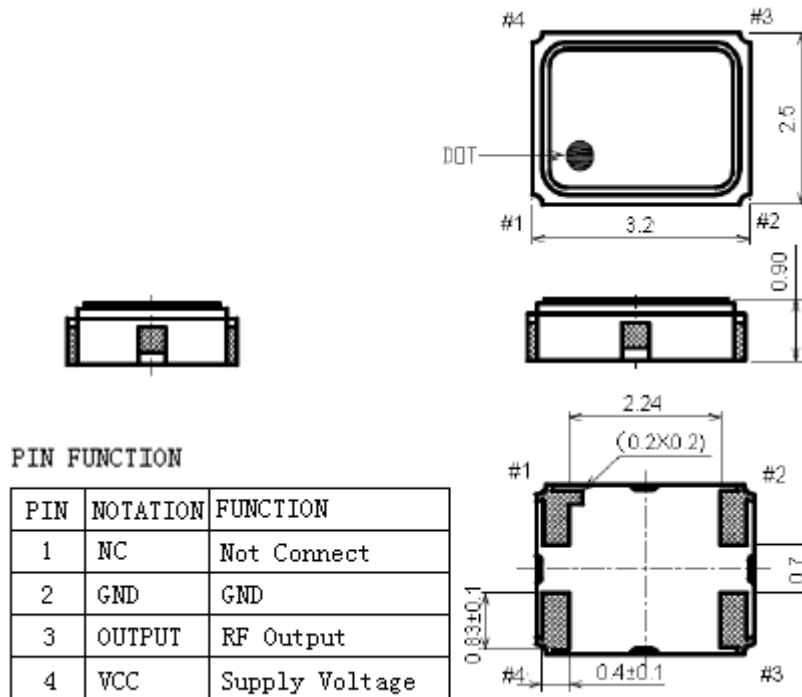
MODEL: T32-Q519-25.00MHz						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency	25.00			MHz	
	Output Waveform	Clipped Sine Wave				
	Vp-p	0.8			V	
	Duty Cycle	40	50	60		
	Harmonics			-7	dBc	
	Load	10KΩ//10pF				
	Star-up Time			2.5	ms	vs. Frequency
			2.5	ms	vs. Output Level	
Frequency Stabilities	Frequency Tolerance vs. Operating Temperature Range	-2.0		+2.0	$\times 10^{-6}$	T_A varied from -30°C to 85°C , measurement referenced to frequency observed with $f_{ref}=(f_{max}+f_{min})/2$, $T_A=25^{\circ}\text{C}$, $V_{cc}=3.3\text{V}$, $O_{load}=10\text{K}\Omega//10\text{pF}$, temperature variable speed less than 2°C per minute.
	Initial Frequency Tolerance	-2.0		+2.0	$\times 10^{-6}$	Measurement referenced to frequency observed with $T_A=25^{\circ}\text{C}$, $V_{cc}=3.3\text{V}$, within 30 days after ex-works.
	Frequency Tolerance vs. Supply Voltage	-0.3		+0.3	$\times 10^{-6}$	measurement referenced to frequency observed $T_A=25^{\circ}\text{C}$, V_{cc} varied from 3.13V to 3.47V, and $O_{Load}=10\text{K}\Omega//10\text{pF}$.
	Frequency Tolerance vs. Load	-0.2		+0.2	$\times 10^{-6}$	5% load change measurement referenced to frequency observed with $T_A=25^{\circ}\text{C}$, $V_{cc}=3.3\text{V}$, $O_{Load}=10\text{K}\Omega//10\text{pF}$.
	Slope of Frequency Drift Reflow			0.5	$\times 10^{-6}$	Vs. Temperature Range(2°C step, from low to high temperature)
	Aging Tolerance Per Day	-0.02		+0.02	$\times 10^{-6}$	$T_A=25^{\circ}\text{C}$, $V_{cc}=3.3\text{V}$, and after 1h of operation.
	Aging Tolerance 1 Year	-1		+1	$\times 10^{-6}$	
Power Supply	Current Consumption			3	mA	@ 25°C , $V_{cc}=3.3\text{V}$, $O_{load}=10\text{K}\Omega//10\text{pF}$.
	Supply Voltage	3.20	3.30	3.40	V	



Phase Noise	Phase Noise		-80	-70	dBc/Hz	10Hz
			-110	-105		100Hz
			-135	-130		1KHz
			-150	-145		10KHz
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; ANSI/ESDA/JEDEC JS-001-2010.				
	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)

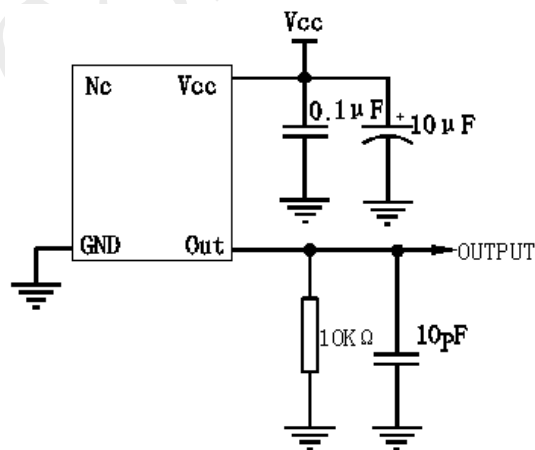


Note1: Tolerance ± 0.2 without mark

Note2: Referential weight 0.02

Note3: NC is not connect

3. Test circuit





4. Reflow Soldering Curve (RoHS)



5. Package: Tape & Reel (mm)

