Travelling Merchant:_____

DATASHEET

Standard: **T32-Q519-40.00MHz**

P/N: _____

Plot			The Label
Drew	Audited	Approved	
Amway.wei	Carry.Wang	James.Liu	
Date: 2013.12.12			Stamp, please! Thanks!

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Table of amendment

Version	Revision contents	Prepared by	Revised date
1.0	The first issued	Amway	2013.12.12

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1. Electrical Parameters

MODEL： T32-Q519-40.00MHz

Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency		40.00		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	-1		+1	$\times 10^{-6}$	T_A varied from -40℃ to 85℃, measurement referenced to frequency observed with T_A=25℃, V_{cc}=3.3V, O_{load}=10KΩ//10pF, temperature variable speed less than 2℃per minute.
	Nominal Frequency Tolerance	-1.5		+1.5	$\times 10^{-6}$	@25℃, V_{cc}=3.3V, 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℃, V_{cc} varied from 3.13V to 3.47V, and O_{Load}=10KΩ//10pF.
	Frequency Tolerance vs. Load	-0.2		+0.2	$\times 10^{-6}$	10% load change measurement referenced to frequency observed with T_A=25℃, V_{cc}=3.3V, and O_{Load}=10KΩ//10pF .
	Aging Tolerance 1 Year	-1		+1	$\times 10^{-6}$	T_A=25℃, V_{cc}=3.3V, and after 1h of operation.
Power Supply	Operating Current			2	mA	@25℃, V_{cc}=3.3V, O_{Load}=10KΩ//10pF.
	Supply Voltage	3.13	3.3	3.47	V	

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Phase Noise	Phase Noise @25℃		-130	-125	dBc/Hz	1KHz
Environmental Conditions	Operable Temperature	-40		+85	℃	
	Storage Temperature	-55		+105	℃	
	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.				

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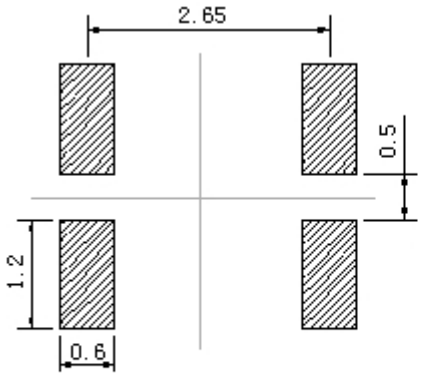
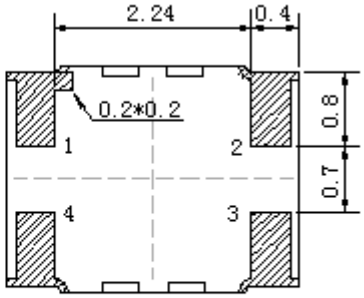
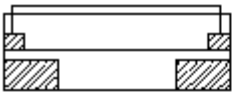
2. Mechanical Structure(mm)



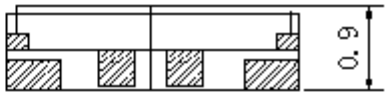
Solder Pad Layout



Bottom View



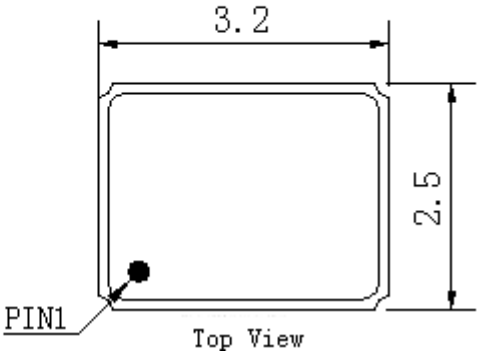
Right View



Side View

PIN FUNCTION

PIN	FUNCTION
1	GND
2	GND
3	OUTPUT
4	VCC

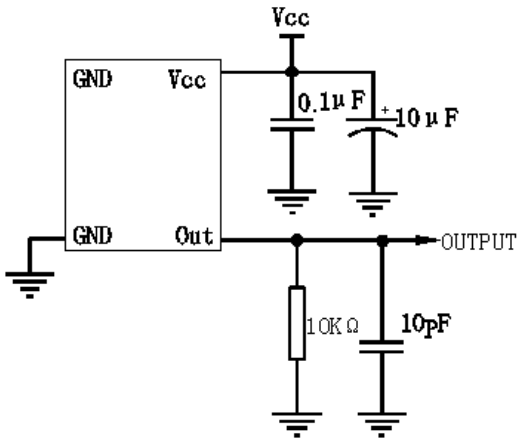


Top View

Note1: Tolerance ±0.1mm without mark

Note2 Referential Weight 0.02g

3. Test Circuit



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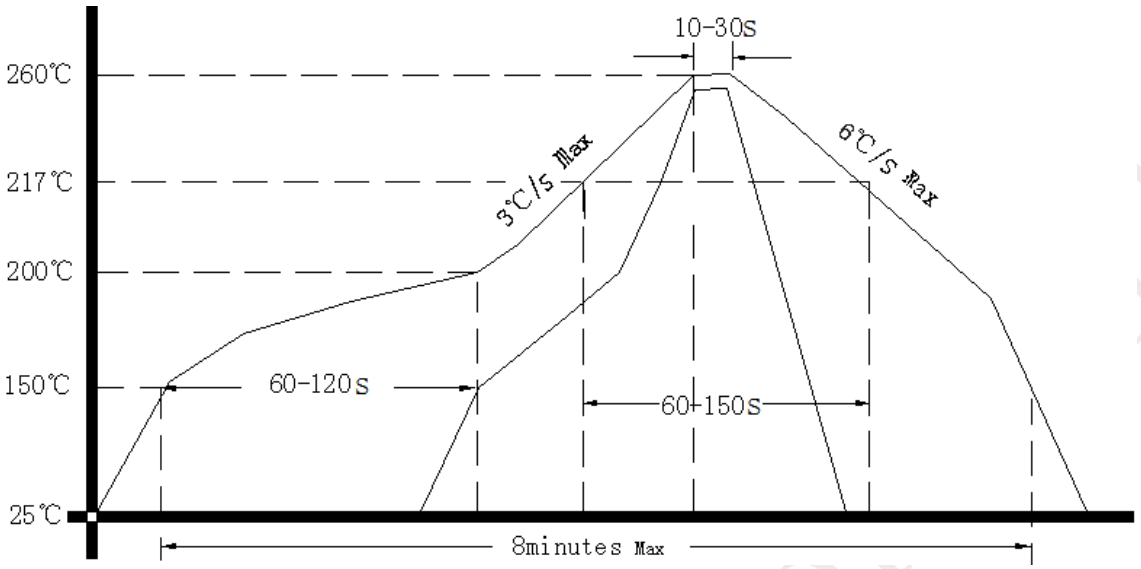
4. Reflow Soldering Curve (RoHS)



5. Package: Tape & Reel (mm)