

Travelling Merchant: _____

DATASHEET

Standard: **T75B-M324-16.384MHz**

P/N: _____

Plot			The Label
Drew	Audited	Approved	Stamp, please! Thanks!
Date: 2017.04.01			

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Table of amendment

Version	Revision contents	Prepared by	Revised date
1.0	The first issued	<i>Amway</i>	2011.10.25
1.1	“Current Consumption” changed	<i>Amway</i>	2017.04.01



1. Electrical Parameters

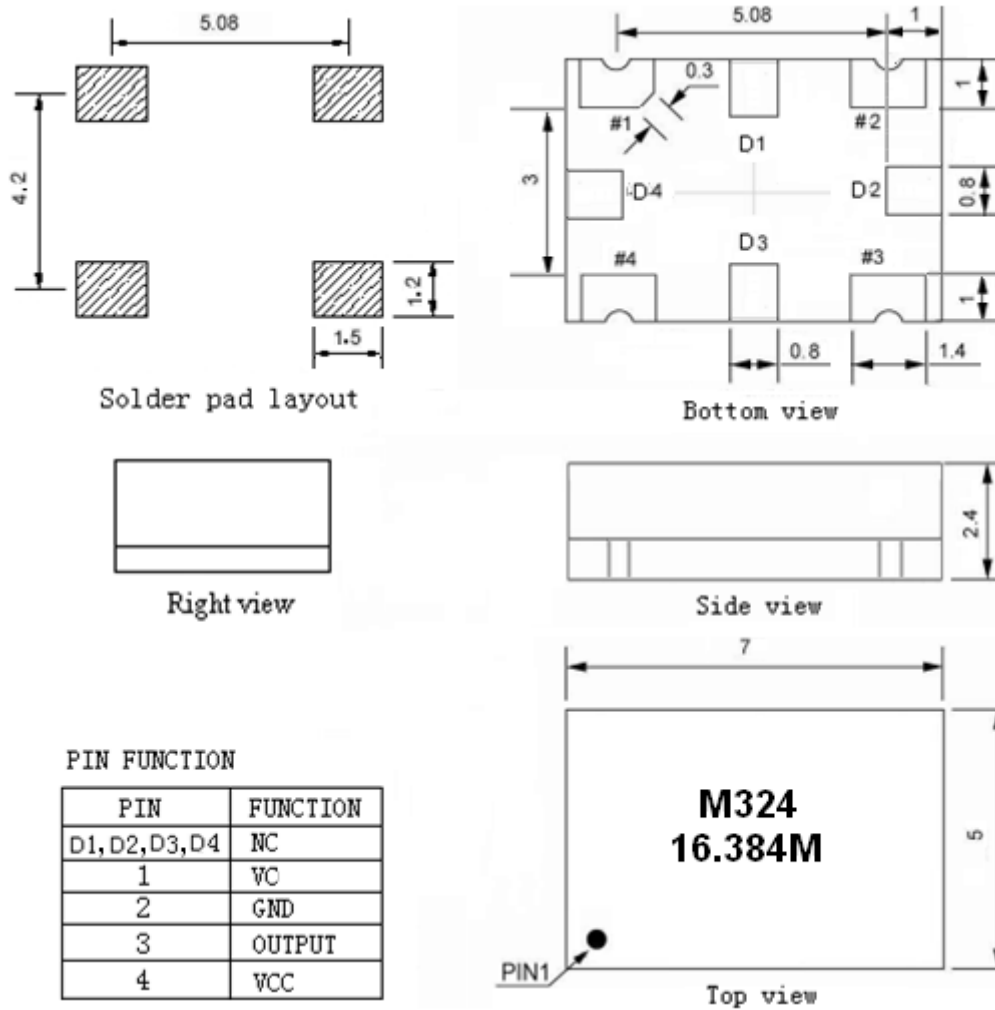
MODEL: T75B-M324-16.384MHz						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency	16.384			MHz	
	Output Waveform	HCMOS				
	Output Low Voltage			0.4	V	$V_{cc}=5.0V, O_{load}=15\text{ pF}$
	Output High Voltage	2.4			V	$V_{cc}=5.0V, O_{load}=15\text{ pF}$
	Duty Cycle	45	50	55	%	@50%
	Rise / Fall Time (10%~90%)			8	ns	@25°C
	Load	15			pF	
Frequency Stabilities	Frequency Tolerance vs. Operating Temperature Range	-3		+3	$\times 10^{-6}$	T_A varied from -45°C to 80°C, measurement referenced to frequency observed with $T_A = 25^\circ\text{C}$, $V_{cc} = 5.0V$, $V_c = 2.5V$, $O_{load} = 15\text{ pF}$, temperature variable speed less than 2°C per minute.
	Initial Frequency Tolerance	-1		+1	$\times 10^{-6}$	Measurement referenced to frequency observed with $T_A = 25^\circ\text{C}$, $V_{cc} = 5.0V$, $V_c = 2.5V$ within 30 days after ex-works.
	Frequency Tolerance vs. Supply Voltage	-0.2		+0.2	$\times 10^{-6}$	measurement referenced to frequency observed $T_A = 25^\circ\text{C}$, V_{cc} varied from 4.75V to 5.25V, $V_c = 2.5V$ and $O_{Load} = 15\text{ pF}$.
	Frequency Tolerance vs. Load	-0.2		+0.2	$\times 10^{-6}$	5% load change measurement referenced to frequency observed with $T_A = 25^\circ\text{C}$, $V_{cc} = 5.0V$, $V_c = 2.5V$, $O_{Load} = 15\text{ pF}$
	Aging Tolerance Per Day	-0.02		+0.02	$\times 10^{-6}$	$T_A = 25^\circ\text{C}$, $V_{cc} = 5.0V$, $V_c = 2.5V$ and after 1h of operation.
	Aging Tolerance 1 Year	-1		+1	$\times 10^{-6}$	
Power Supply	Current Consumption			5	mA	@25°C, $V_{cc} = 5.0V$, $V_c = 2.5V$, $O_{load} = 15\text{ pF}$.
	Supply Voltage	4.75	5.0	5.25	V	



Voltage Control Characteristics	Frequency Tuning Range			-5	$\times 10^{-6}$	$V_c=0V$. measurement referenced to $V_c=2.5V$
		-1		+1	$\times 10^{-6}$	$V_c=2.5V$. measurement referenced to exactly 16.384MHz
		+5			$\times 10^{-6}$	$V_c=5.0V$. measurement referenced to $V_c=2.5V$
	Linearity			10	%	
	Slope	Positive				
	Input Impedance	100				K Ω
Phase Noise	Phase Noise		-75	-70	dBc/Hz	10Hz
			-110	-105		100Hz
			-132	-127		1KHz
			-142	-137		10KHz
			-148	-143		100KHz
			-148	-143		1MHz
Environmental Conditions	Operable Temperature	-45		+80	$^{\circ}C$	
	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; 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)

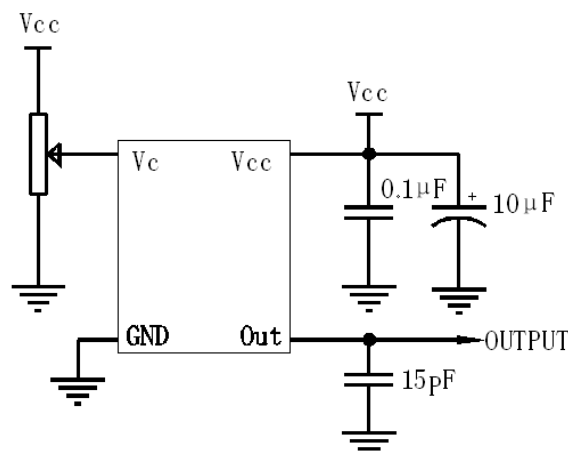


Note1: Tolerance $\pm 0.2\text{mm}$ without mark

Note2: Referential weight 0.2g

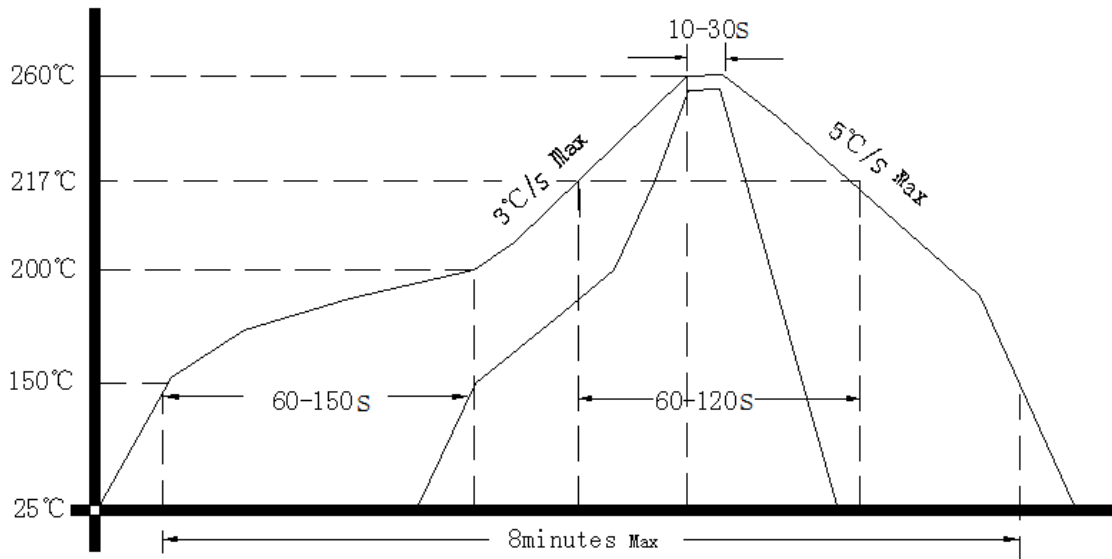
Note3: NC is not connect

3. Test circuit





4. Reflow Soldering Curve (RoHS)



5. Package: Tape & Reel (mm)

