Travelling Merchant:_____

DATASHEET

Standard: **M22A-L429-18.432-110.592MHz**

P/N: _____

Plot			The Label
Drew	Audited	Approved	
Amway.wei	Jerry.Yue	James.Liu	
Date: 2012.05.05			Stamp, please! Thanks!

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Table of amendment

Version	Revision contents	Prepared by	Revised date
1.0	The first issued	Amway	2011.09.08
1.1	1. Level and Frequency Adjust Range Change. 2. Add Mechanical Adjust Rubber Stopper.	Amway	2011.09.14
1.2	“Mechanical Structure” and “Soldering Curve” changed	Amway	2012.05.05

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1. Electrical Parameters

MODEL： M22A-L429-18.432-110.592MHz							
Item	Description		Parameters			Unit	Test Condition
			Min.	Typ.	Max.		
Output	Output 1	Frequency		18.432		MHz	
		Output Waveform		Sine Wave			
		Level	5			dBm	$O_{load=}$50Ω
		Harmonics Suppression			-35	dBc	
		Spurious Suppression			-70	dBc	
	Output 2	Frequency		110.592		MHz	
		Output Waveform		Sine Wave			
		Level	5			dBm	$O_{load=}$50Ω
		Harmonics Suppression			-30	dBc	
		Spurious Suppression			-60	dBc	
	Channel Isolation		40			dB	
	Load			50		Ω	
Frequency Stabilities	Frequency Tolerance vs. Operating Temperature Range		-0.5		+0.5	$\times 10^{-6}$	T_A varied from-40℃ to 80℃,measurement referenced to frequency observed with T_A= 25℃, V_{cc}=5.0V, $O_{load=}$50Ω, temperature variable speed less than 2℃per minute.
	Initial Frequency Tolerance		-0.5		+0.5	$\times 10^{-6}$	Measurement referenced to frequency observed with T_A = 25℃, V_{cc}=5.0V within 30 days after ex-works.
	Frequency Tolerance vs. Supply Voltage		-0.1		+0.1	$\times 10^{-6}$	measurement referenced to frequency observed T_A=25℃, V_{cc} varied from 4.75V to 5.25V, and O_{Load}=50Ω.
	Frequency Tolerance vs. Load		-0.1		+0.1	$\times 10^{-6}$	5% load change measurement referenced to frequency observed with T_A= 25℃, V_{cc}=5.0V, O_{Load}=50Ω.
	Aging Tolerance Per Day		-0.02		+0.02	$\times 10^{-6}$	T_A=25℃, V_{cc}=5.0V, and after 1h of operation.
	Aging Tolerance 1 Year		-1		+1	$\times 10^{-6}$	

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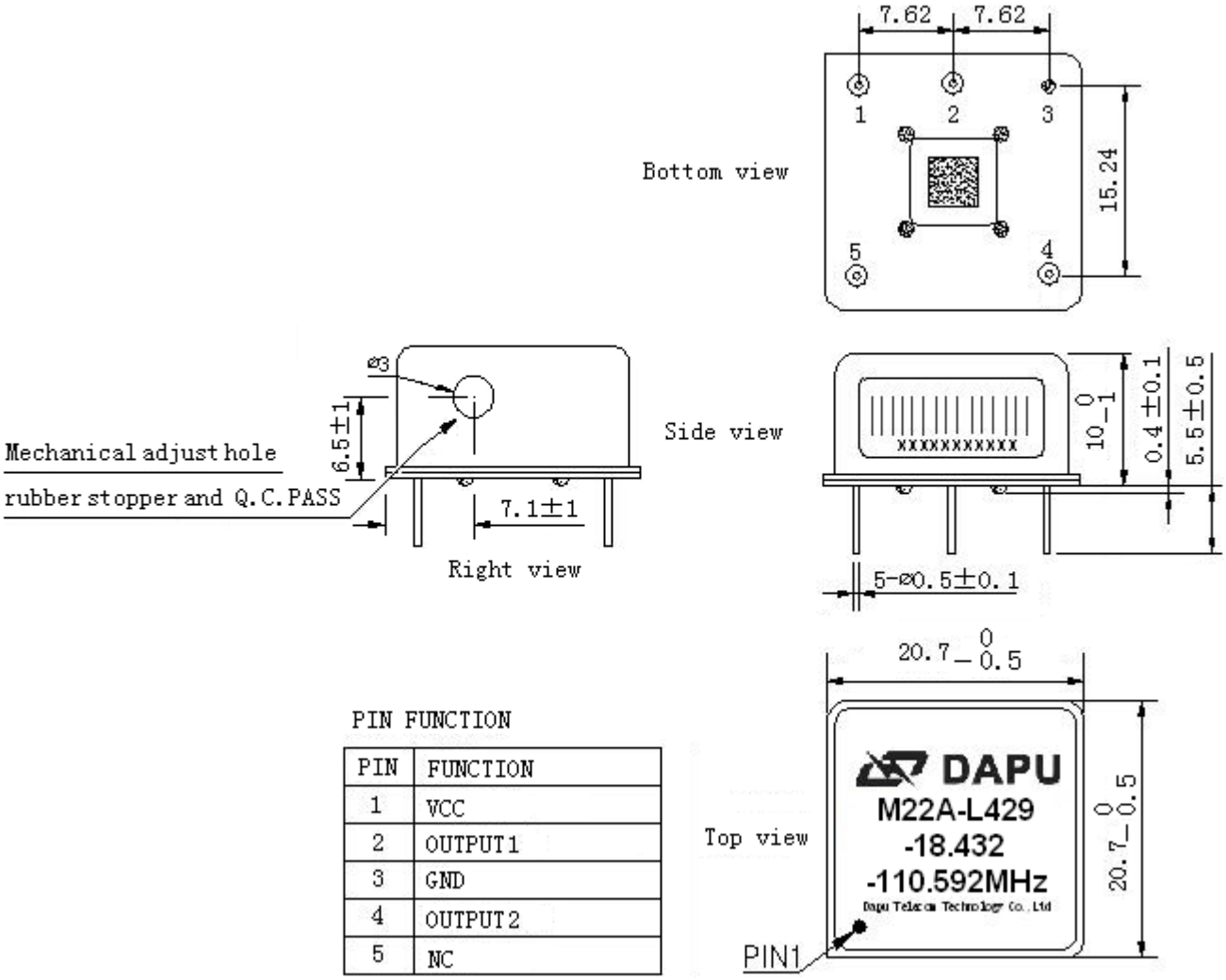
Power Supply	Current Consumption		20		mA	@25℃, V_{cc}=5.0V, O_{load}=50Ω.
	Supply Voltage	4.75	5.0	5.25	V	
Mechanical Adjust	Frequency Adjust Range			-10	$\times 10^{-6}$	
		+10				
Phase Noise	Phase Noise (18.432MHz)		-135	-130	dBc/Hz	1KHz
			-145	-140		10KHz
			-150	-145		100KHz
	Phase Noise (110.592MHz)		-110	-105		1KHz
Environmental Conditions	Operable Temperature	-40		+80	℃	
	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.				

2. Mechanical Structure(mm)



PIN FUNCTION

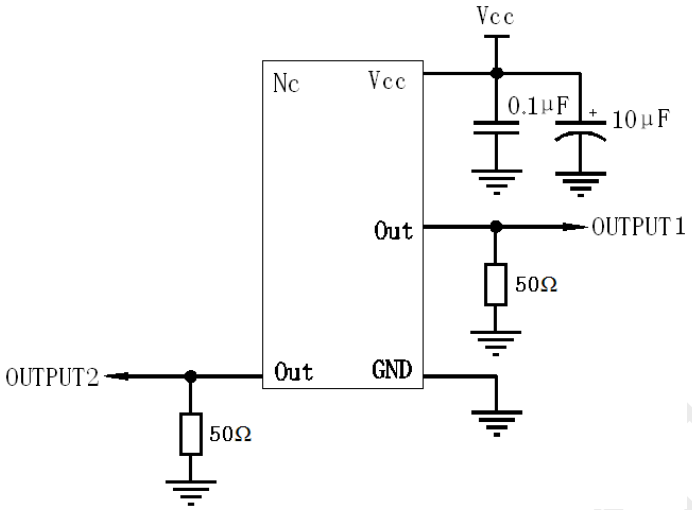
PIN	FUNCTION
1	VCC
2	OUTPUT1
3	GND
4	OUTPUT2
5	NC

Note1: Tolerance ±0.2mm without mark

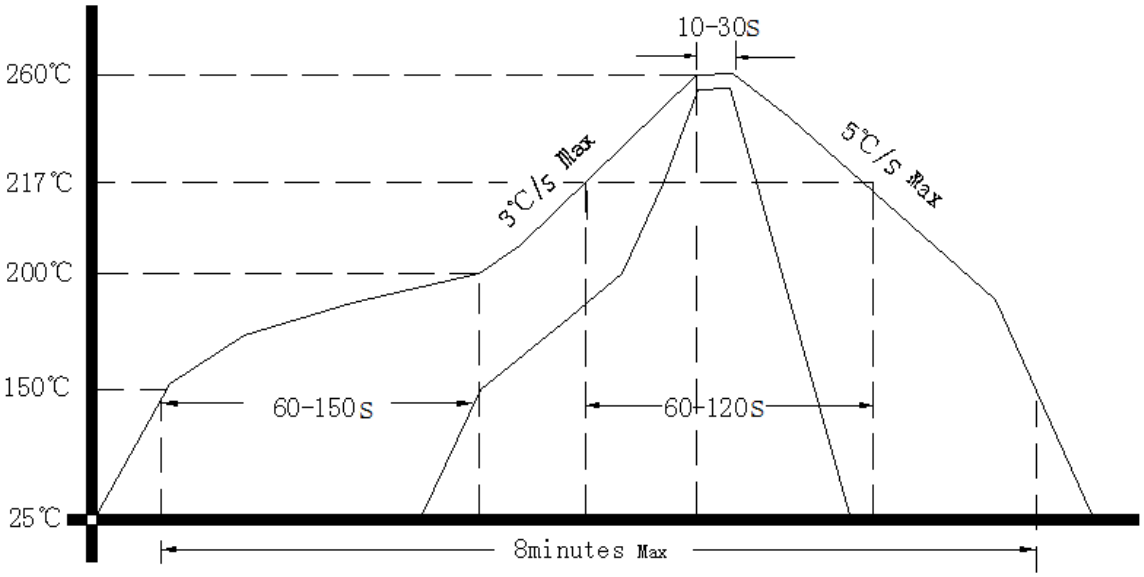
Note2: Referential Weight 6.75g

Note3: NC is not connect

3. Test circuit



4. Reflow Soldering Curve (RoHS)



5. Package: PVC Tube,10pcs（mm）