Travelling Merchant:_____

DATASHEET

Standard: **O23B-O126-10.00MHz-B**

P/N: _____

Plot			The Label
Drew	Audited	Approved	Stamp, please! Thanks!
Amway.wei	Carry.Wang	James.Liu	
Date: 2016.10.11			

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1. Electrical Parameters

MODEL： O23B-O126-10.00MHz-B						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency		10.00		MHz	
	Output Waveform		LVTTL			
	Output Low Voltage			0.4	V	V_{cc}=5.0V, O_{load}=15pF
	Output High Voltage	2.4			V	V_{cc}=5.0V, O_{load}=15pF
	Duty Cycle	45	50	55	%	@50%
	Rise / Fall Time (10%~90%)			3	ns	
	Spurious			-60	dBc	
	Load		15		pF	
Frequency Stabilities	Frequency Tolerance vs. Operating Temperature Range	-3		+3	$\times 10^{-9}$	T_A varied from -40℃ to 80℃, measurement referenced to frequency observed with T_A = 25℃, V_{cc}=5.0V, V_c=2.5V, $O_{load=}$15pF, temperature variable speed less than 2℃per minute.
	Initial Frequency Tolerance	-0.1		+0.1	$\times 10^{-6}$	Measurement referenced to frequency observed with T_A=25℃, V_{cc}=5.0V, V_c=2.5V, and after 15 minutes of operation, within 30 days after ex-works.
	Frequency Tolerance vs. Supply Voltage	-1		+1	$\times 10^{-9}$	measurement referenced to frequency observed T_A=25℃, V_{cc} varied from 4.75V to 5.25V, V_c =2.5V and O_{Load}=15pF.
	Frequency Tolerance vs. Load	-1		+1	$\times 10^{-9}$	5% load change measurement referenced to frequency observed with T_A= 25℃, V_{cc}=5.0V, V_c=2.5V, and O_{Load}=15pF.
	Short-Term Stability: Allan Variance			0.015	$\times 10^{-9}$	Temperature stability, no EMI\EMC or other interference， test after power for 1hour ref. to 25℃; 1s , using PN9000 equipment.
	Aging Tolerance Per Day	-0.5		+0.5	$\times 10^{-9}$	V_{cc}, V_c, T_A constant measurement referenced to frequency observed with T_A= 25℃, V_{cc}= 5.0V, V_c =2.5V,and after 30 days of operation.
	Aging Tolerance 1 Year	-0.03		+0.03	$\times 10^{-6}$	
Power Supply	Supply Voltage	4.75	5.0	5.25	V	
	Steady Consumption			400	mA	@25℃
	Warm up current			1000	mA	

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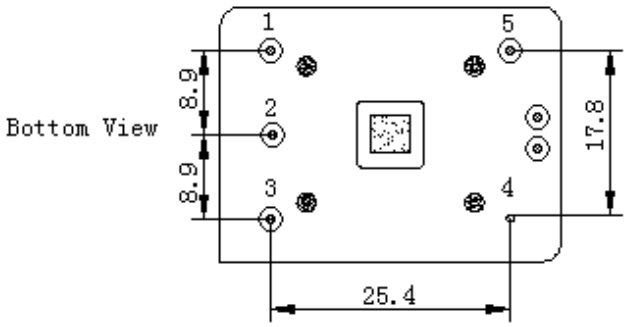
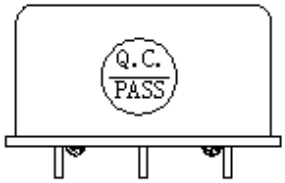
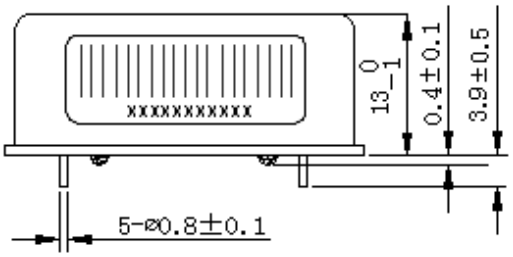
Voltage Control Characteristics	Frequency Tuning Range	-0.8		-0.4	$\times 10^{-6}$	V_c= 0 V. measurement referenced to V_c=2.5V
		-0.1		+0.1	$\times 10^{-6}$	V_c=2.5V. measurement referenced to exactly 10.00MHz
		+0.4		+0.8	$\times 10^{-6}$	V_c=5.0V. measurement referenced to V_c=2.5V
	Linearity			10	%	
	Slope	Positive				
	Input Impedance	100			KΩ	
Phase Noise	Phase Noise		-115	-110	dBc/Hz	10Hz
			-135	-130		100Hz
			-148	-143		1KHz
			-152	-147		10KHz
			-155	-150		100KHz
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	Not humidity sensitive.				
	Vibration	Test Condition: 0.75mm ;acceleration:10g;10Hz～500Hz, one cycle per 30 min, test 2 hour. (3 times for each 3 directions X ,Y , Z)， IEC 68-2-06 Test Fc.				
	Shock	50g；11ms；half sine wave (3 times for each 3 directions X ,Y, Z),IEC 68-2-27 Test Ea/Severity 50A.				

2. Mechanical Structure (mm)



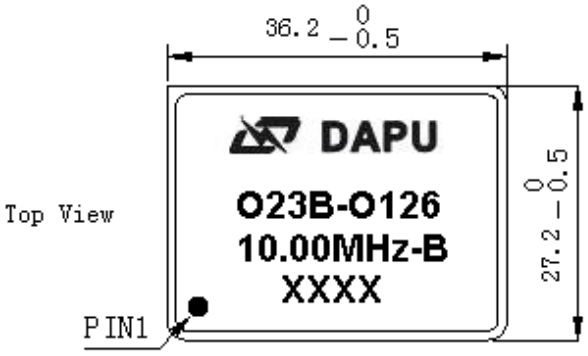


Right View



PIN FUNCTION

PIN	FUNCTION
1	VCC
2	Vref
3	VC
4	GND
5	OUTPUT



Note1: Tolerance ±0.2mm without mark

Note2: Referential Weight 21g

Note3: The first two xx representative: week
After two xx representative: year

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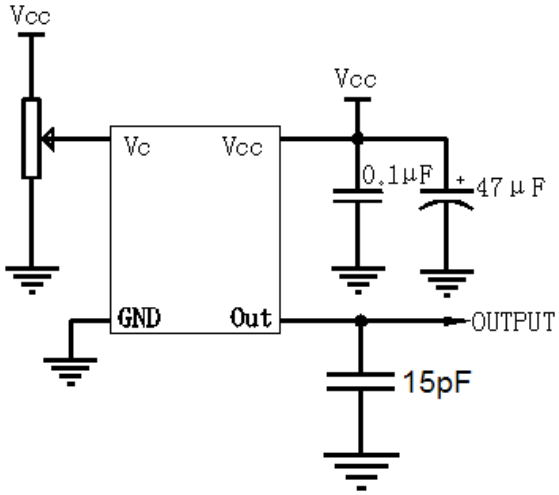
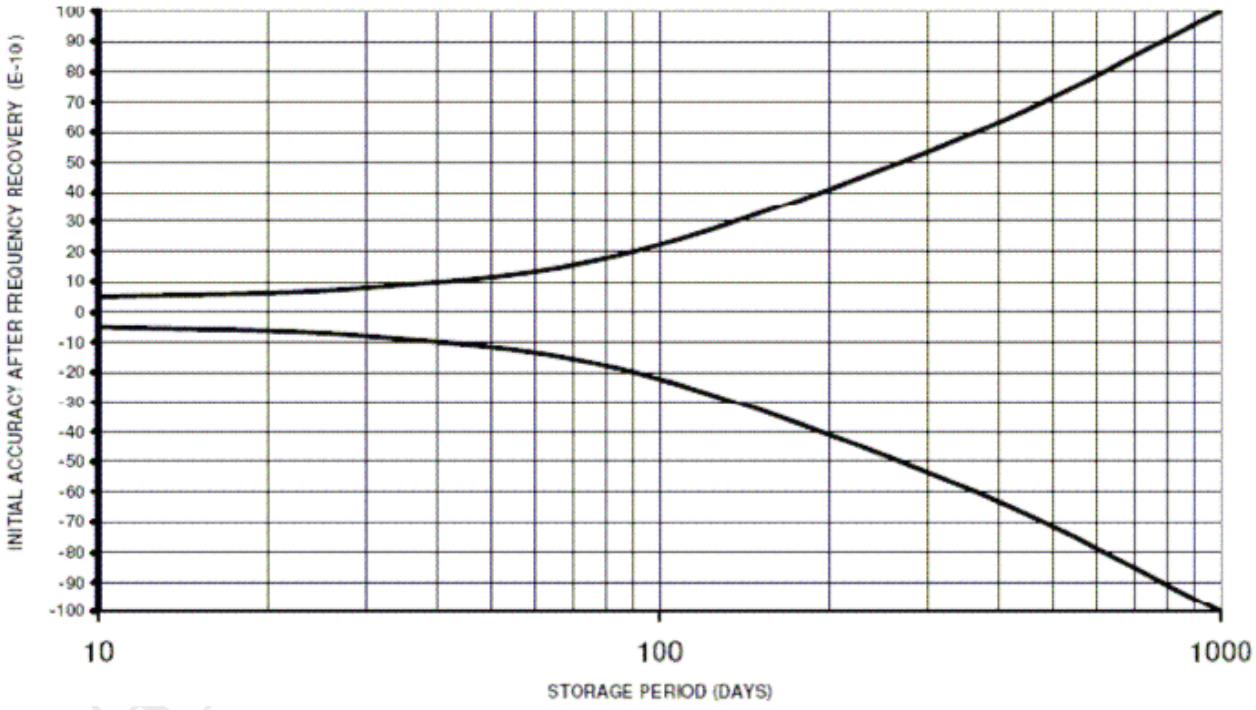
3. Test Circuit



4. Initial accuracy at IQC after frequency recovery



Note: Initial accuracy with time of storage and retrace measured at 25 °C after frequency recovery time

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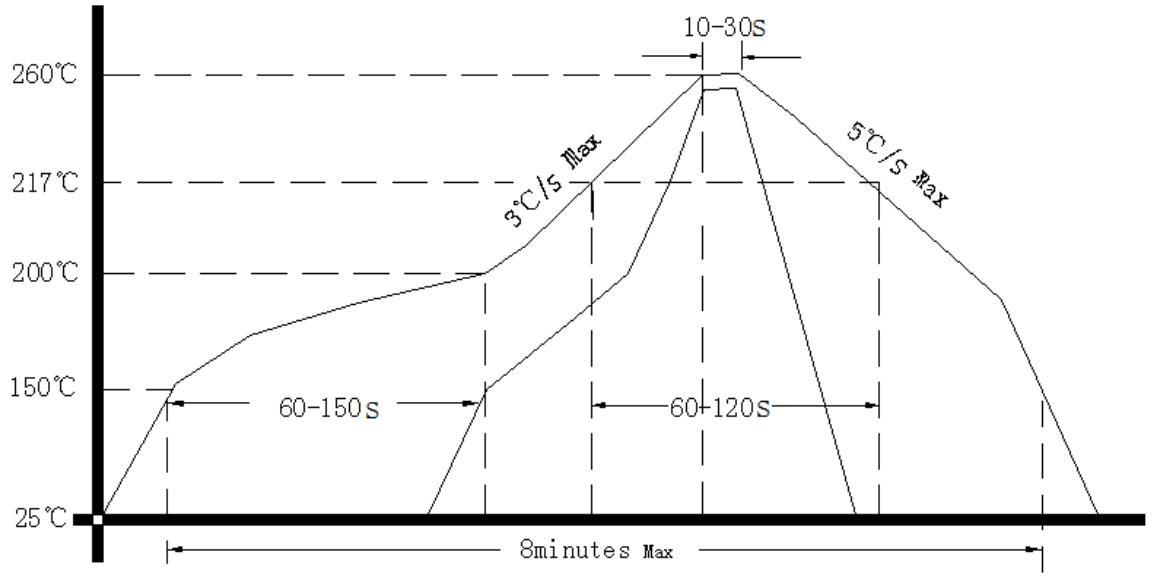
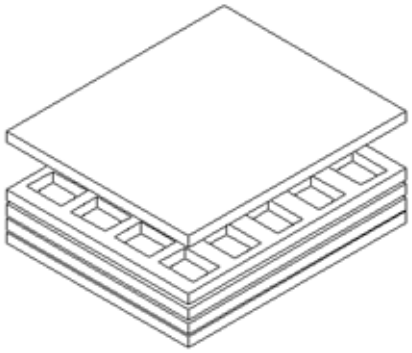
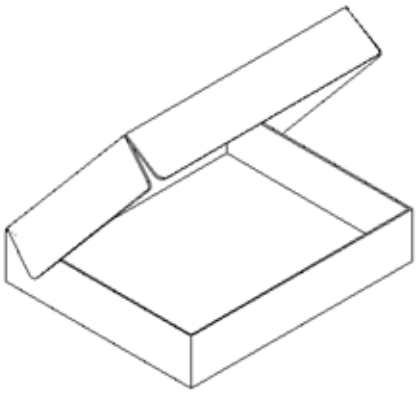
5. Reflow Soldering Curve (RoHS)



5. Package（mm）



Buffer material



Cardboard
Max 20pcs. circulator