Travelling Merchant:_____

DATASHEET

Standard: **O23B-S428-400.00MHz**

Plot			The Label
Drew	Audited	Approved	
Date: 2020.09.01			Stamp, please! Thanks!

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Table of amendment

Version	Revision contents	Prepared by	Revised date
1.0	The first issued	Amway	2020.09.01

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1、Electrical Parameters

MODEL： O23B-S428-400.00MHz

Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency		400.00		MHz	
	Output Waveform		Sine wave			
	Level	7			dBm	
	Load		50		Ω	
	Harmonics Suppression			-35	dBc	
	Spurious Suppression			-75	dBc	
Frequency Stabilities	Frequency Tolerance vs. Operating Temperature Range	-5		+5	ppb	T_A varied from -40℃ to70℃, measurement referenced to frequency observed with T_A = 25℃, V_{cc}=5.0V, O_{load}=50Ω, temperature rise speed less than 2℃per minute.
	Initial Frequency Tolerance	-0.5		+0.5	ppm	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	-5		+5	ppb	measurement referenced to frequency observed T_A=25℃, V_{cc} varied from4.75V to 5.25V, V_C =2.5V.
	Frequency Tolerance vs. Load	-5		+5	ppb	5% load change measurement referenced to frequency observed with T_A= 25℃, V_{cc}= 5.0V, V_C=2.5V and O_{Load}=50Ω.
	Aging Tolerance Per Day	-5		+5	ppb	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	-0.1		+0.1	ppm	
Power Supply	Supply Voltage	4.75	5	5.25	V	
	Current Consumption			450	mA	@25℃
	Current Consumption during warm up			1000	mA	

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Voltage Control Characteristics	Frequency Tuning Range			-1	ppm	V_C= 0 V. measurement referenced to V_C=2.5V
		-0.5		+0.5	ppm	V_C=2.5V. measurement referenced to exactly 400.00MHz
		+1			ppm	V_C=5.0V. measurement referenced to V_C=2.5V
	Linearity			10	%	
	Slope	Positive				
	Input Impedance	100			K Ohm	
Phase Noise	Phase Noise		-150		dBc/Hz	1KHz
Environmental Conditions	Operable Temperature	-40		+70	℃	
	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; JEDEC JESD22-A115C.				
	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.				
Full Package Storage	Relative humidity (%)	20%～70%				
	Temperature (℃)	-10~35℃				

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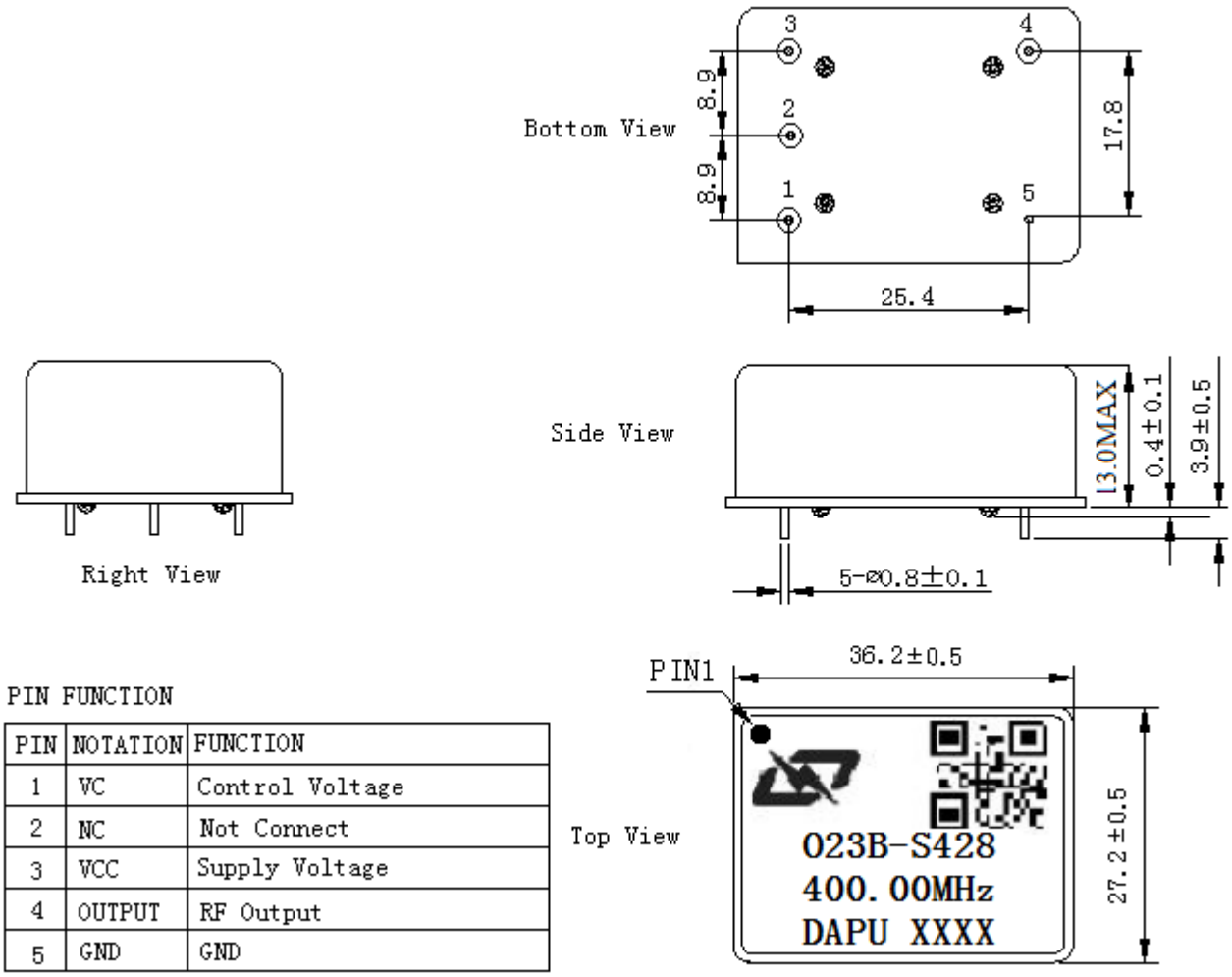
2、Mechanical Structure(mm)



PIN FUNCTION

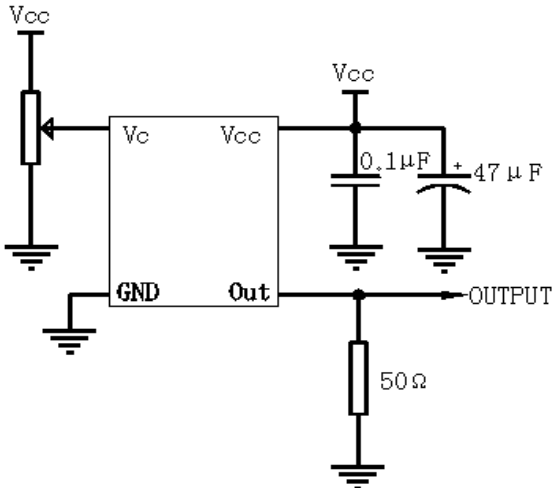
PIN	NOTATION	FUNCTION
1	VC	Control Voltage
2	NC	Not Connect
3	VCC	Supply Voltage
4	OUTPUT	RF Output
5	GND	GND

Note1: Tolerance ±0.2mm without mark

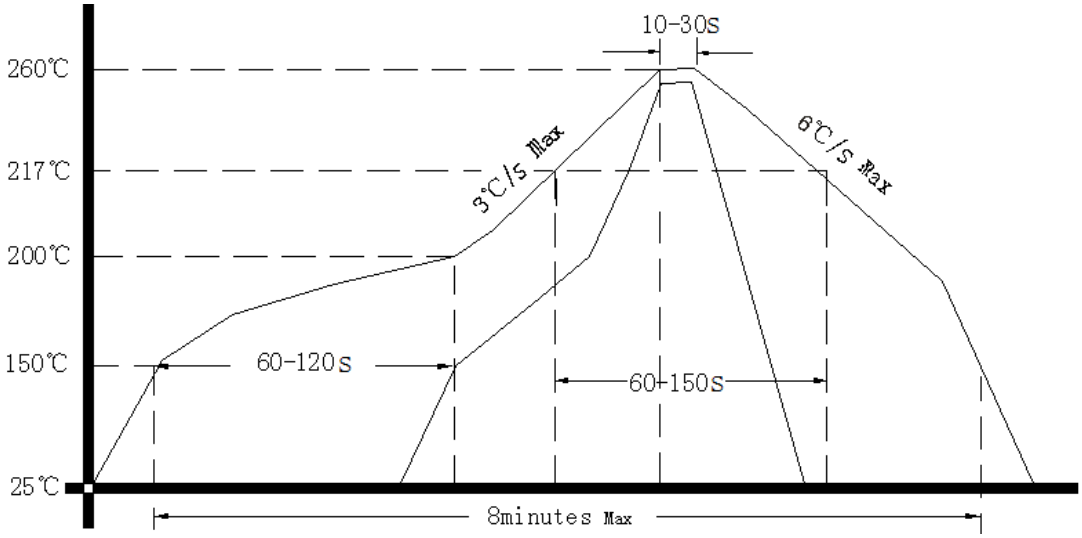
Note2: The first two xx representative: week
After two xx representative: year

Note3: Referential weight 20.7g

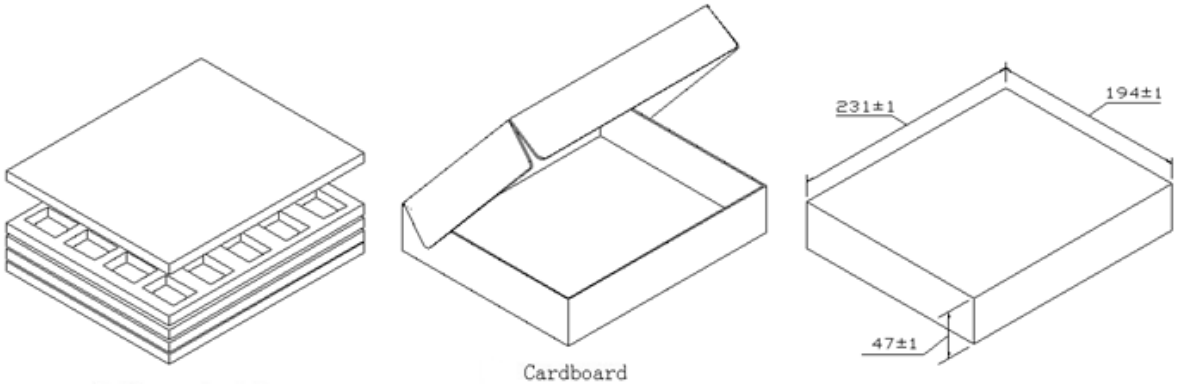
3、Test Circuit



4、Wave Soldering Curve (RoHS)



5、Package（mm）



Buffer material

Cardboard
Max 20pcs. circulator