Travelling Merchant:_____

DATASHEET

Standard: **O23B-F420-10.23MHz-A**

Plot			The Label
Drew	Audited	Approved	
Sunne.Sun	Tony·Wang	James.Liu	
Date:			Stamp, please! Thanks!

Guangdong Dapu Telecom Technology Co.,Ltd

Bldg13,.N.Ind.Zone,SSL Industry Park, Dongguan City, Guangdong Province, China

TEL：0086-0769-88010888 FAX：0086-0769-81800098

Bldg13,.N.Ind.Zone,SSL Industry Park,
Dongguan City, Guangdong Province,
PR China
TEL:0086-0769-88010888
FAX:0086-0769-81800098

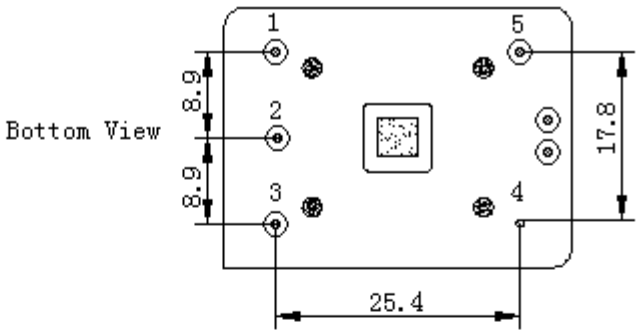
1、Electrical Parameters

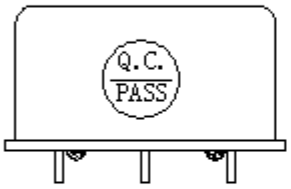
MODEL： O23B-F420-10.23MHz-A						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency		10.23		MHz	
	Output Waveform		Sine wave			
	Level	5		9	dBm	
	Load		50		Ω	
	Harmonics Suppression			-30	dBc	
	Spurious Suppression			-60	dBc	
Frequency Stabilities	Frequency Tolerance vs. Operating Temperature Range	-0.5		+0.5	ppb	T_A varied from -20℃ to70℃, measurement referenced to frequency observed with T_A = 25℃, V_{cc}=5.0V, V_C=2.0V, O_{load}=50Ω temperature rise speed less than 2℃per minute.
	Initial Frequency Tolerance	-0.05		+0.05	ppm	After warm up 15 minute, Measurement referenced to frequency observed with T_A= 25℃, Vcc =5.0V,Vc=2.0V and after 1 hour of operation
	Frequency Tolerance vs. Supply Voltage	-0.5		+0.5	ppb	measurement referenced to frequency observed T_A=25℃, V_{cc} varied from4.75V to 5.25V, V_C =2.0V.
	Frequency Tolerance vs. Load	-0.5		+0.5	ppb	5% load change measurement referenced to frequency observed with T_A= 25℃, V_{cc}=5.0V, V_C=2.0V and O_{Load}=50Ω.
	Short-Term Stability: Allan Variance			0.01	ppb	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	ppb	V_{cc}, V_C, T_A constant measurement referenced to frequency observed with T_A= 25℃, V_{cc}= 5.0V, V_C =2.0V,and after 30 days of operation.
	Aging Tolerance 1 Year	-0.05		+0.05	ppm	
Power Supply	Supply Voltage	4.75	5	5.25	V	
	Steady Consumption			400	mA	@25℃
	Warm up current			1000	mA	

Bldg13,.N.Ind.Zone,SSL Industry Park,
Dongguan City, Guangdong Province,
PR China
TEL:0086-0769-88010888
FAX:0086-0769-81800098

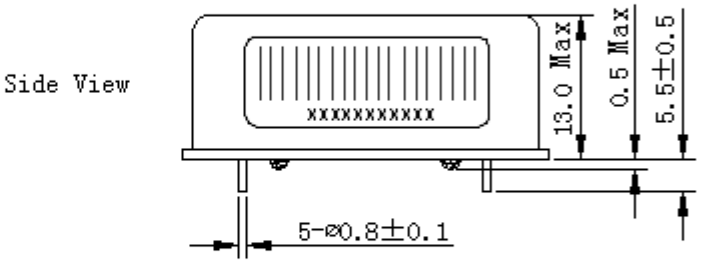
Voltage Control Characteristics	Frequency Tuning Range			-0.3	ppm	V_C= 0 V. measurement referenced to V_C=2.0V
		-0.05		+0.05	ppm	V_C=2.0V. measurement referenced to exactly 10.23MHz in 30 days after ex-works
		+0.3			ppm	V_C=4.0V. measurement referenced to V_C=2.0V
	Linearity			10	%	
	Slope	Positive				
	Input Impedance	100			K Ohm	
Phase Noise	Phase Noise		-125		dBc/Hz	10Hz
			-140			100Hz
			-145			1KHz
			-150			10KHz
			-150			100KHz
Environmental Conditions	Operable Temperature	-20		+70	℃	
	Storage Temperature	-55		+80	℃	
	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)



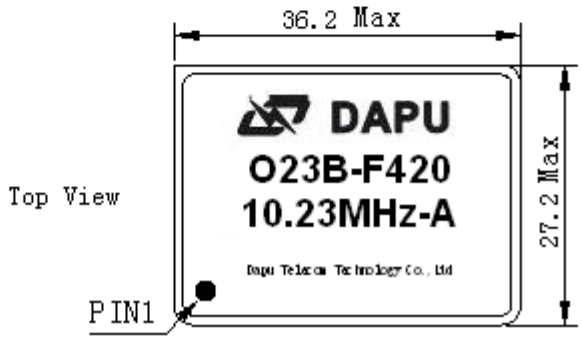


Right View



PIN FUNCTION

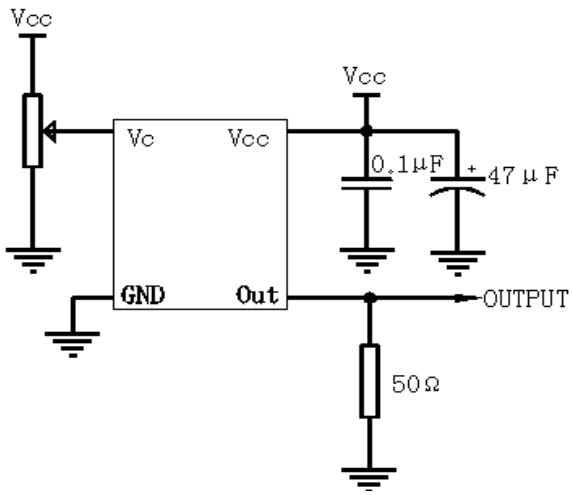
PIN	FUNCTION
1	VCC
2	NC
3	VC
4	GND
5	OUTPUT



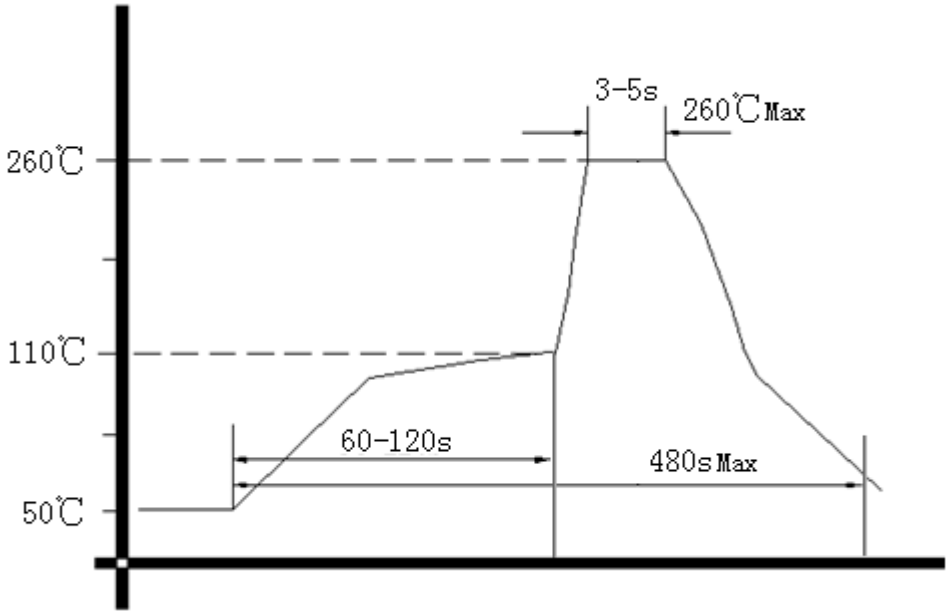
*Tolerance ±0.2mm without mark

Note1: Referential Weight 21.0g

3、Test Circuit



4、Wave Soldering Curve (RoHS)



5、Package: PVC Tube,5pcs（mm）