

Travelling Merchant: _____

DATASHEET

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

P/N: _____

Plot			The Label
Drew	Audited	Approved	Stamp, please! Thanks!
Date: 2012.05.07			

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1. Electrical Parameters

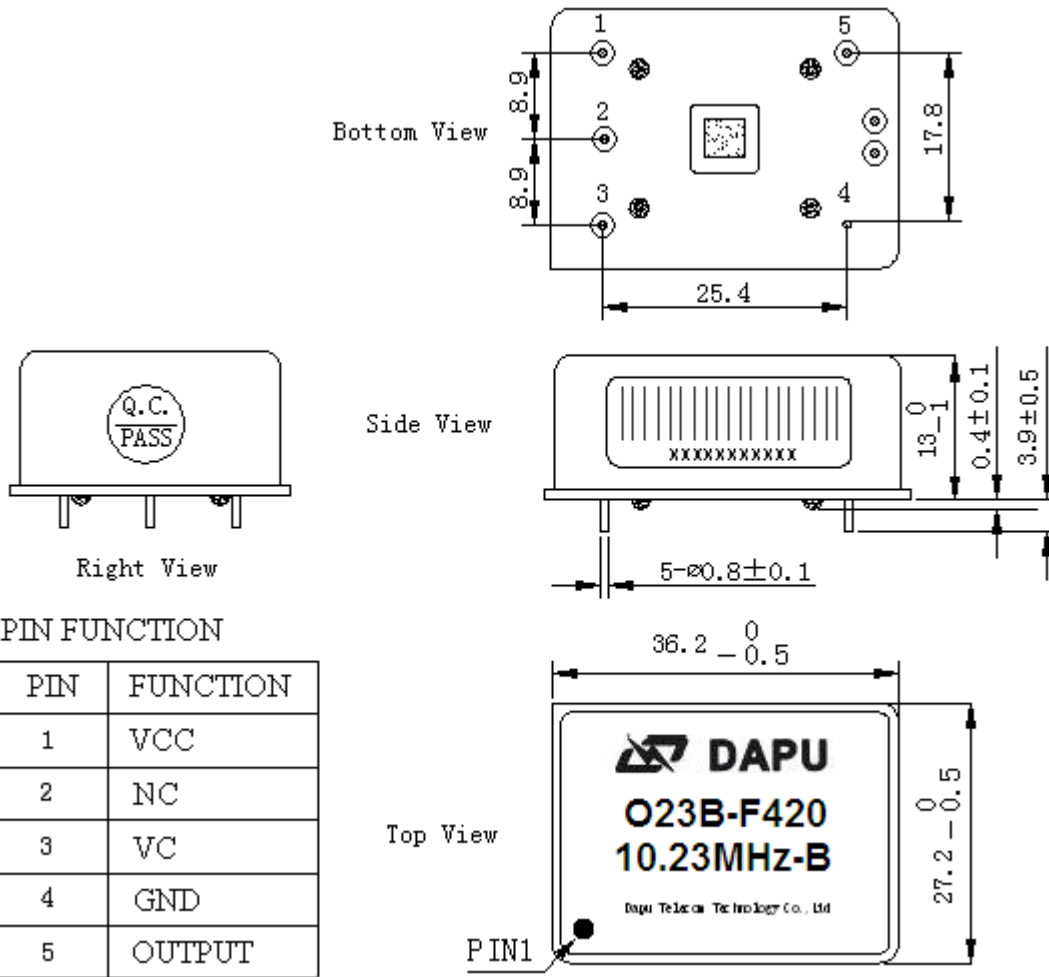
MODEL: O23B-F420-10.23MHz-B						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency	10.23			MHz	
	Output Waveform	Sine wave				
	Level	5		9	dBm	
	Load	50			Ω	
	Harmonics Suppression			-30	dBc	
	Spurious Suppression			-60	dBc	
Frequency Stabilities	Frequency Tolerance vs. Operating Temperature Range	-0.5		+0.5	$\times 10^{-9}$	T_A varied from -20°C to 70°C , measurement referenced to frequency observed with $T_A=25^{\circ}\text{C}$, $V_{cc}=5.0\text{V}$, $V_c=2.5\text{V}$, $O_{load}=50\Omega$, temperature rise speed less than 2°C per minute.
	Initial Frequency Tolerance	-0.2		+0.2	$\times 10^{-6}$	Measurement referenced to frequency observed with $T_A=25^{\circ}\text{C}$, $V_{cc}=5.0\text{V}$, $V_c=2.5\text{V}$ and after 15 minutes of operation, within 30 days after ex-works.
	Frequency Tolerance vs. supply voltage	-0.5		+0.5	$\times 10^{-9}$	measurement referenced to frequency observed $T_A=25^{\circ}\text{C}$, V_{cc} varied from 4.75V to 5.25V, $V_c=2.5\text{V}$, $O_{load}=50\Omega$.
	Frequency Tolerance vs. Load	-0.5		+0.5	$\times 10^{-9}$	5% Load Change Measurement referenced to frequency observed with $T_A=25^{\circ}\text{C}$, $V_{cc}=5.0\text{V}$, $V_c=2.5\text{V}$, $O_{load}=50\Omega$.
	Short Term Stability: Allan Variance			0.01	$\times 10^{-9}$	Temperature stability, no EMI\EMC or other interference, test after power for 1hour ref. to 25°C ; 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 $T_A=25^{\circ}\text{C}$, $V_{cc}=5.0\text{V}$
	Aging Tolerance 1Year	-0.05		+0.05	$\times 10^{-6}$	$V_c=2.5\text{V}$, $O_{load}=50\Omega$ and after 30 days of operation.
Power Supply	Supply Voltage	4.75	5.0	5.25	V	
	Steady Consumption			400	mA	@ 25°C
	Warm up current			1000	mA	



Voltage Control Characteristics	Frequency Tuning Range			-0.5	$\times 10^{-6}$	$V_c=0V$. measurement referenced to $V_c=2.5V$.
		-0.2		+0.2	$\times 10^{-6}$	$V_c=2.5V$. measurement referenced to exactly 10.23MHz.
		+0.5			$\times 10^{-6}$	$V_c=5.0V$. measurement referenced to $V_c=2.5V$.
	Linearity			15	%	
	Slope	Positive				
	Input Impedance	10				MΩ
Phase Noise	Phase Noise		-125		dBc/Hz	10Hz
			-140			100Hz
			-145			1KHz
			-150			10KHz
			-150			100KHz
			-155			1MHz
Environmental Conditions	Operable Temperature	-40		+85	°C	
	Storage Temperature	-55		+105	°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	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)



PIN FUNCTION

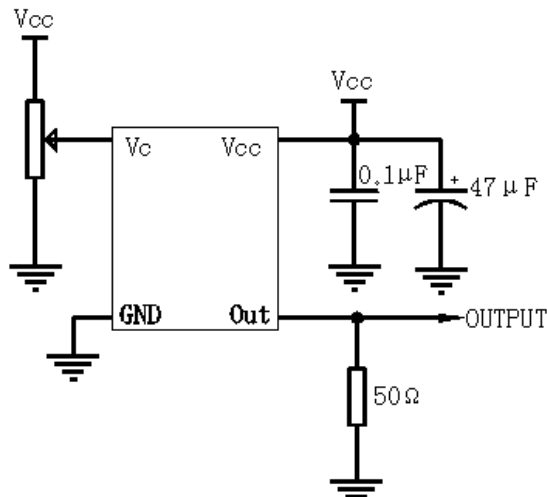
PIN	FUNCTION
1	VCC
2	NC
3	VC
4	GND
5	OUTPUT

Note1: Tolerance ±0.2mm without mark

Note2: Referential Weight 21g

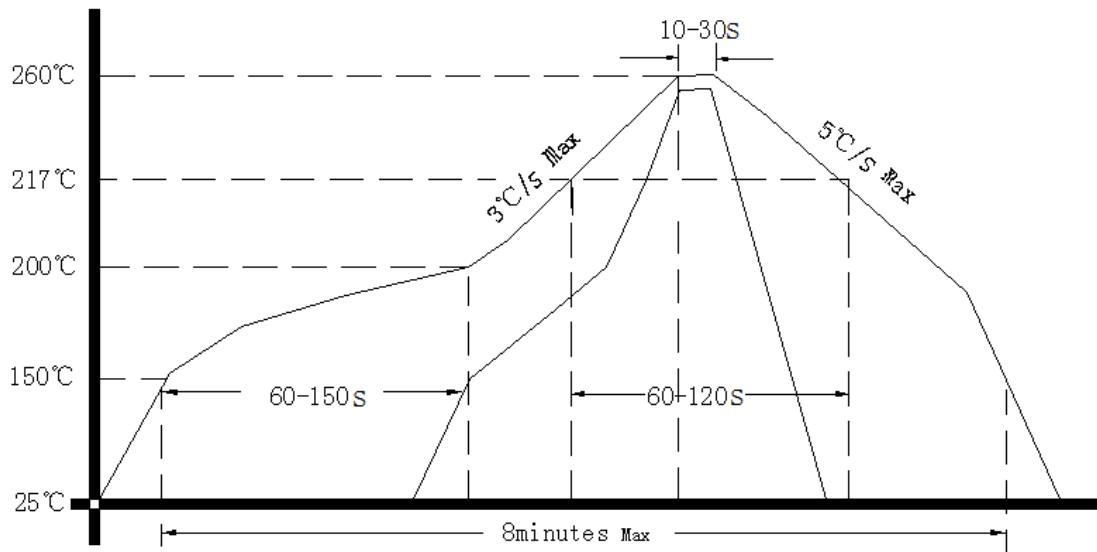
Note3: NC is not connect

3. Test Circuit





4. Reflow Soldering Curve (RoHS)



5. Package(mm)

