

Travelling Merchant: _____

DATASHEET

Standard: **O23B-S448-400.00MHz**

Plot			The Label
Drew	Audited	Approved	Stamp, please! Thanks!
Date: 2020.11.19			

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1、Electrical Parameters

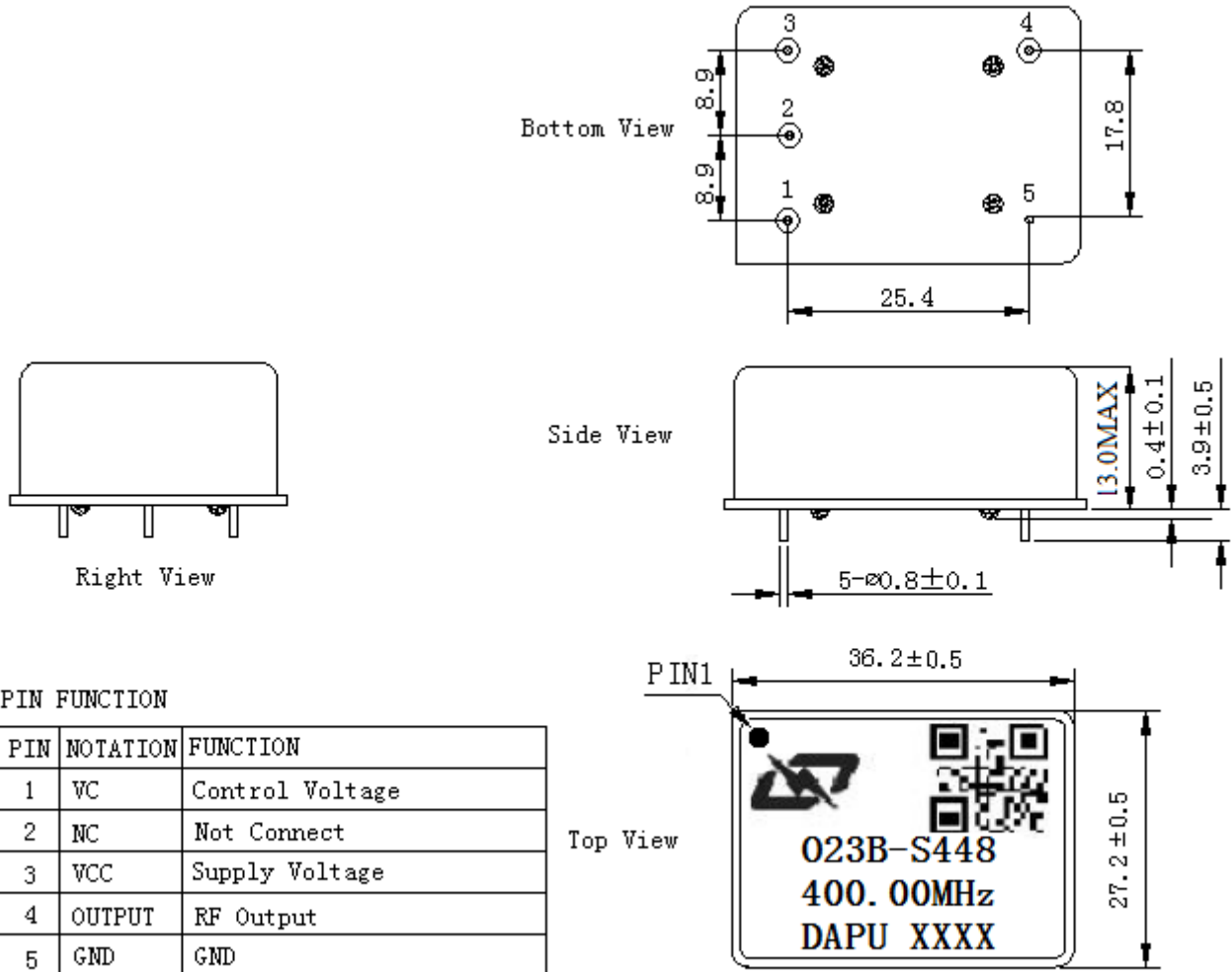
MODEL: O23B-S448-400.00MHz						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency	400.00			MHz	
	Output Waveform	Sine wave				
	Level	7			dBm	
	Load	50			Ω	
	Harmonics Suppression			-30	dBc	
	Spurious Suppression			-60	dBc	
Frequency Stabilities	Frequency Tolerance vs. Operating Temperature Range	-0.01		+0.01	ppm	T_A varied from -40°C to 70°C , measurement referenced to frequency observed with $T_A = 25^{\circ}\text{C}$, $V_{cc}=12\text{V}$, $O_{load}=50\Omega$, temperature rise speed less than 2°C per minute.
	Initial Frequency Tolerance	-0.5		+0.5	ppm	Measurement referenced to frequency observed with $T_A=25^{\circ}\text{C}$, $V_{cc}=12\text{V}$, $V_C=2.5\text{V}$ and after 15 minutes of operation, within 30 days after ex-works.
	Frequency Tolerance vs. Supply Voltage	-5		+5	ppb	measurement referenced to frequency observed $T_A=25^{\circ}\text{C}$, V_{cc} varied from 11.4V to 12.6V, $V_C=2.5\text{V}$.
	Frequency Tolerance vs. Load	-5		+5	ppb	5% load change measurement referenced to frequency observed with $T_A= 25^{\circ}\text{C}$, $V_{cc}= 12\text{V}$, $V_C=2.5\text{V}$ and $O_{Load}=50\Omega$.
	Aging Tolerance Per Day	-3		+3	ppb	V_{cc} , V_C , T_A constant measurement referenced to frequency observed with $T_A=25^{\circ}\text{C}$, $V_{cc}= 12\text{V}$, $V_C =2.5\text{V}$, and after 30 days of operation.
	Aging Tolerance 1 Year	-0.05		+0.05	ppm	
Power Supply	Supply Voltage	11.4	12	12.6	V	
	Current Consumption			150	mA	@ 25°C
	Current Consumption during warm up			500	mA	



Voltage Control Characteristics	Frequency Tuning Range		-1	ppm	$V_C=0\text{ V}$. measurement referenced to $V_C=2.5\text{V}$
		-0.5	+0.5	ppm	$V_C=2.5\text{V}$. measurement referenced to exactly 400.00MHz
		+1		ppm	$V_C=5.0\text{V}$. measurement referenced to $V_C=2.5\text{V}$
	Linearity		10	%	
	Slope	Positive			
	Input Impedance	100			K Ohm
Phase Noise	Phase Noise		-145	dBc/Hz	1KHz
			-153		10KHz
			-157		100KHz
			157		1MHz
Environmental Conditions	Operable Temperature	-40	+70	°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; 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 (°C)	-10~35°C			



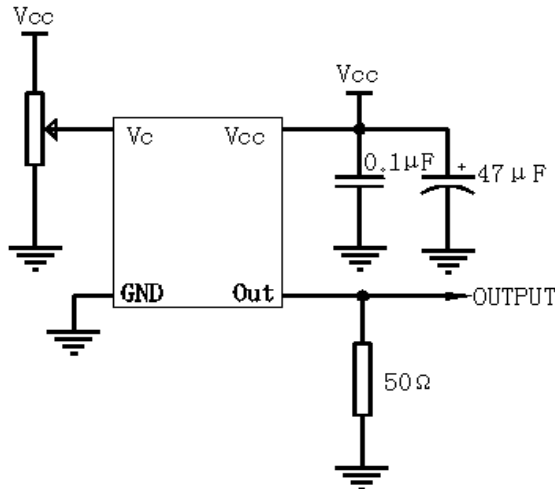
2、Mechanical Structure(mm)



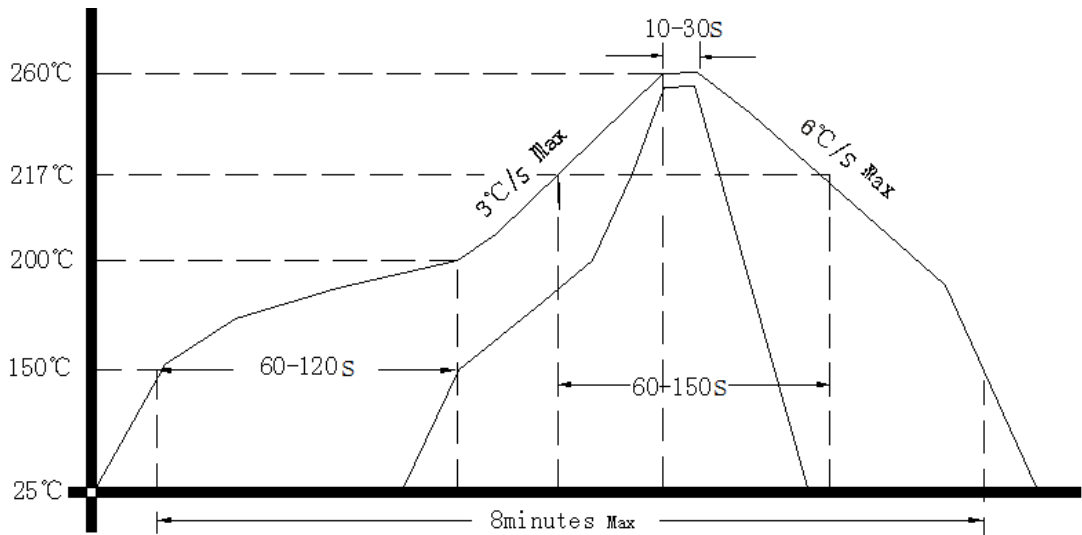
- Note1:** Tolerance ±0.2mm without mark
- Note2:** The first two xx representative: week
After two xx representative: year
- Note3:** Referential weight 20.7g



3、 Test Circuit



4、 Wave Soldering Curve (RoHS)



5、 Package (mm)

