Travelling Merchant: L134

DATASHEET

Standard: **O23B-Q348-5.00MHz**

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

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1、Electrical Parameters

MODEL： O23B-Q348-5.00MHz						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency		5.00		MHz	
	Output Waveform		HCMOS			
	Output Low Voltage			0.4	V	V_{cc}=12.0V, O_{load} =15pF
	Output High Voltage	3.2			V	V_{cc}=12.0V, O_{load}=15pF
	Duty Cycle	45	50	55	%	@50%
	Rise / Fall Time (10%~90%)			5	ns	@25℃
	Load		15		pF	
Frequency Stabilities	Frequency Tolerance vs. Operating Temperature Range	-0.01		+0.01	ppm	T_A varied from 0℃ to 50℃, measurement referenced to frequency observed with T_A = 25℃, V_{cc}=12.0V, V_c= 2.5V, O_{load}=15pF, temperature rise speed less than 2℃perminute.
	Initial Frequency Tolerance	-0.1		+0.1	ppm	Measurement referenced to frequency observed with T_A=25℃, V_{cc}=12.0V, 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 from 10.8V to 13.2V, V_c = 2.5V and O_{Load}=15pF.
	Frequency Tolerance vs. Load	-5		+5	ppb	5% load change measurement referenced to frequency observed with T_A= 25℃, V_{cc}=12.0V, V_c=2.5V and O_{Load}=15pF.
	Short-Term Stability: Allan Variance			0.02	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	-2		+2	ppb	V_{cc}, V_c, T_A constant measurement referenced to frequency observed with T_A=25℃, V_{cc}= 12.0V, V_c=2.5V,and after 30 days of operation.
	Aging Tolerance 1 Year	-0.2		+0.2	ppm	
Power Supply	Supply Voltage	10.8	12.0	13.2	V	
	Current Consumption			200	mA	@25℃
	Warm-Up Time			15	minute	@25℃within ±1.0x$10^{-7}$of final frequency with reference after 1 hours on
	Current Consumption during warm up			400	mA	

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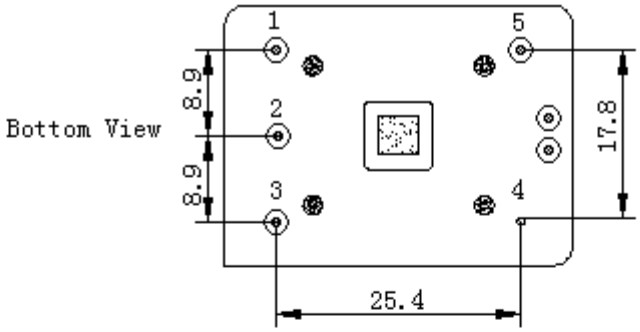
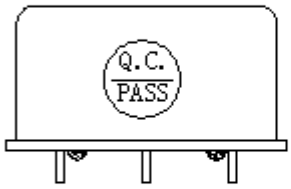
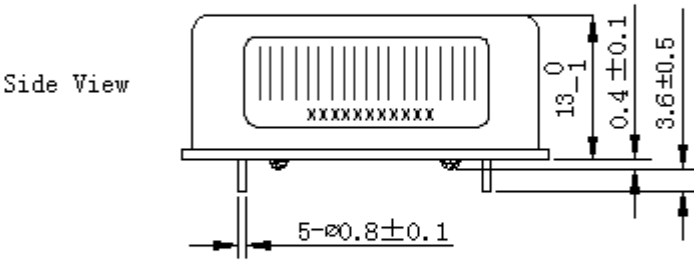
Voltage Control Characteristics	Frequency Tuning Range	-1.5		-0.6	ppm	V_c= 0 V. measurement referenced to V_c=2.5V
		-0.1		+0.1	ppm	V_c=2.5V. measurement referenced to Exactly 10.00MHz
		+0.6		+1.5	ppm	V_c=5.0V. measurement referenced to V_c=2.5V
	Linearity			10	%	
	Slope	Positive				
	Input Impedance	100			K Ohm	
Phase Noise	Phase Noise		-145		dBc/Hz	1KHz
Environmental Conditions	Operable Temperature	0		+50	℃	
	Storage Temperature	-40		+85	℃	
	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)



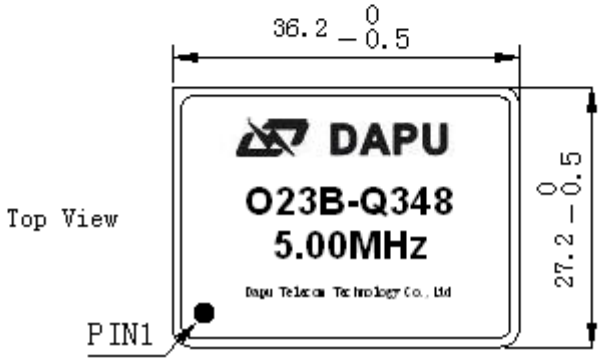


Right View



PIN FUNCTION

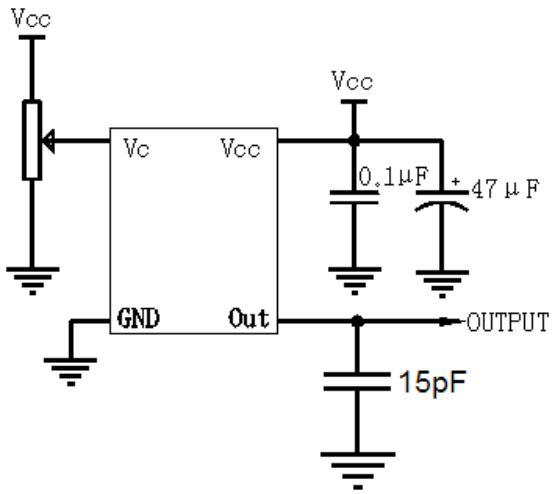
PIN	FUNCTION
1	VCC
2	NC
3	VC
4	GND
5	OUTPUT



Note1: Tolerance ±0.2mm without mark

Note2: Referential Weight 21g

3、Test Circuit



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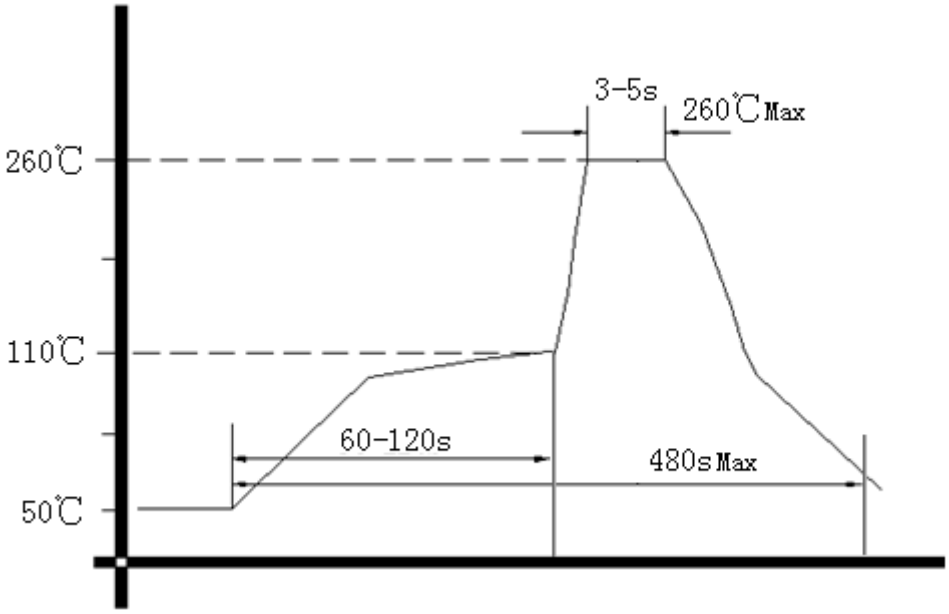
4、Wave Soldering Curve (RoHS)



5、Package: PVC Tube,5pcs（mm）