

Travelling Merchant: C053

# DATASHEET

Standard: O21B-E426-10.00MHz

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

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## 1、Electrical Parameters

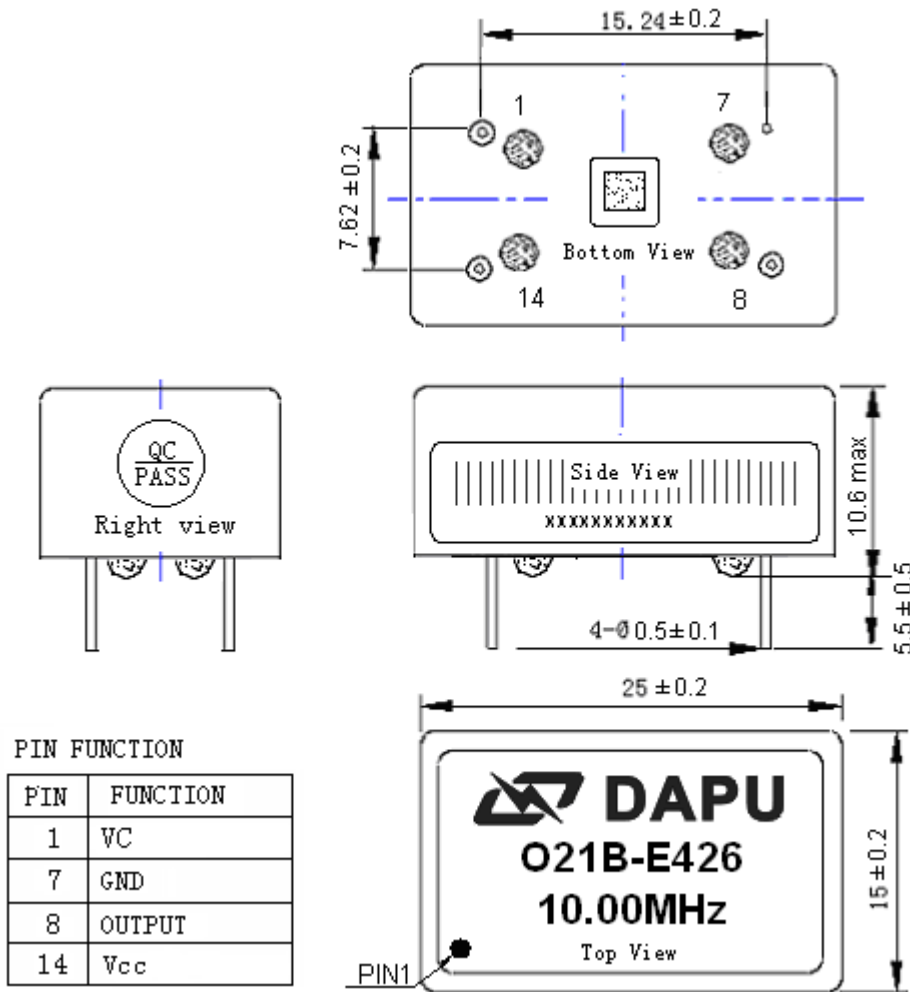
MODEL: O21B-E426-10.00MHz						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency	10.00			MHz	
	Output Waveform	Sine wave				
	Level	6		10	dBm	
	Load	50			$\Omega$	
	Harmonics Suppression			-30	dBc	
	Spurious Suppression			-60	dBc	
Frequency Stabilities	Frequency Tolerance vs. Operating Temperature Range	-0.02		+0.02	ppm	$T_A$ varied from $-20^{\circ}\text{C}$ to $70^{\circ}\text{C}$ , 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 $2^{\circ}\text{C}$ per minute
	Initial Frequency Tolerance	-0.1		+0.1	ppm	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	-5		+5	ppb	measurement referenced to frequency observed $T_A=25^{\circ}\text{C}$ , $V_{cc}$ varied from $4.75\text{V}$ to $5.25\text{V}$ , $V_C=2.5\text{V}$ , $O_{Load}=50\Omega$
	Frequency Tolerance vs. Load	-5		+5	ppb	5% load change measurement referenced to frequency observed with $T_A=25^{\circ}\text{C}$ , $V_{cc}=5.0\text{V}$ , $V_C=2.5\text{V}$ and $O_{Load}=50\Omega$
	Short-Term Stability: Allan Variance			0.05	ppb	Temperature stability, no EMI/EMC or other interference, test after power for 1hour ref. to $25^{\circ}\text{C}$ ; 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 $T_A=25^{\circ}\text{C}$ , $V_{cc}=5.0\text{V}$ , $V_C=2.5\text{V}$ , and after 30 days of operation
	Aging Tolerance 1 Year	-0.05		+0.05	ppm	
Power Supply	Supply Voltage	4.75	5.0	5.25	V	
	Current Consumption			200	mA	@ $25^{\circ}\text{C}$
	Current Consumption during warm up			500	mA	



Voltage Control Characteristics	Frequency Tuning Range	-0.8		-0.4	ppm	$V_C=0V$ . measurement referenced to $V_C=2.5V$
		-0.1		+0.1	ppm	$V_C=2.5V$ . measurement referenced to Exactly 10.00MHz
		+0.4		+0.8	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		-125		dBc/Hz	100Hz
			-140			1KHz
			-145			10KHz
Environmental Conditions	Operable Temperature	-20		+70	°C	
	Storage Temperature	-40		+90	°C	
	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.				

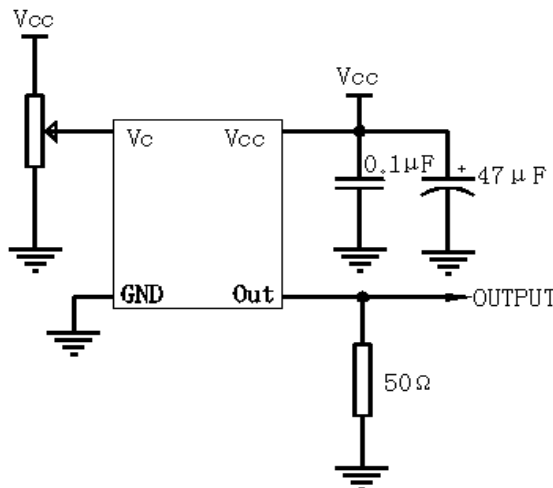


## 2、Mechanical Structure(mm)



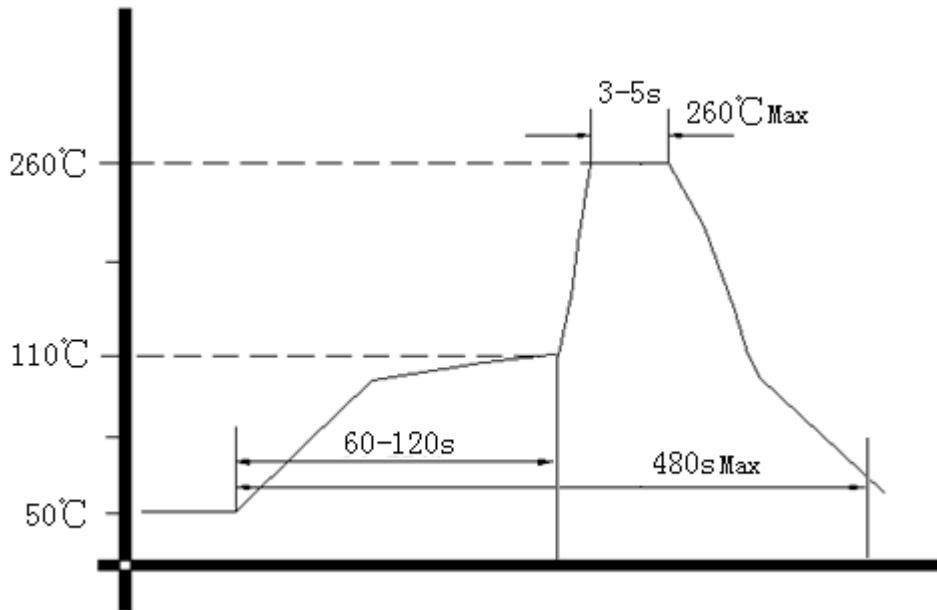
Note1: Referential Weight 6.6g

## 3、Test Circuit





#### 4、 Wave Soldering Curve (RoHS)



#### 5、 Package: PVC Tube,11pcs (mm)

