

Travelling Merchant: S029

# DATASHEET

Standard: O21B-A819-10.00MHz

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

**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



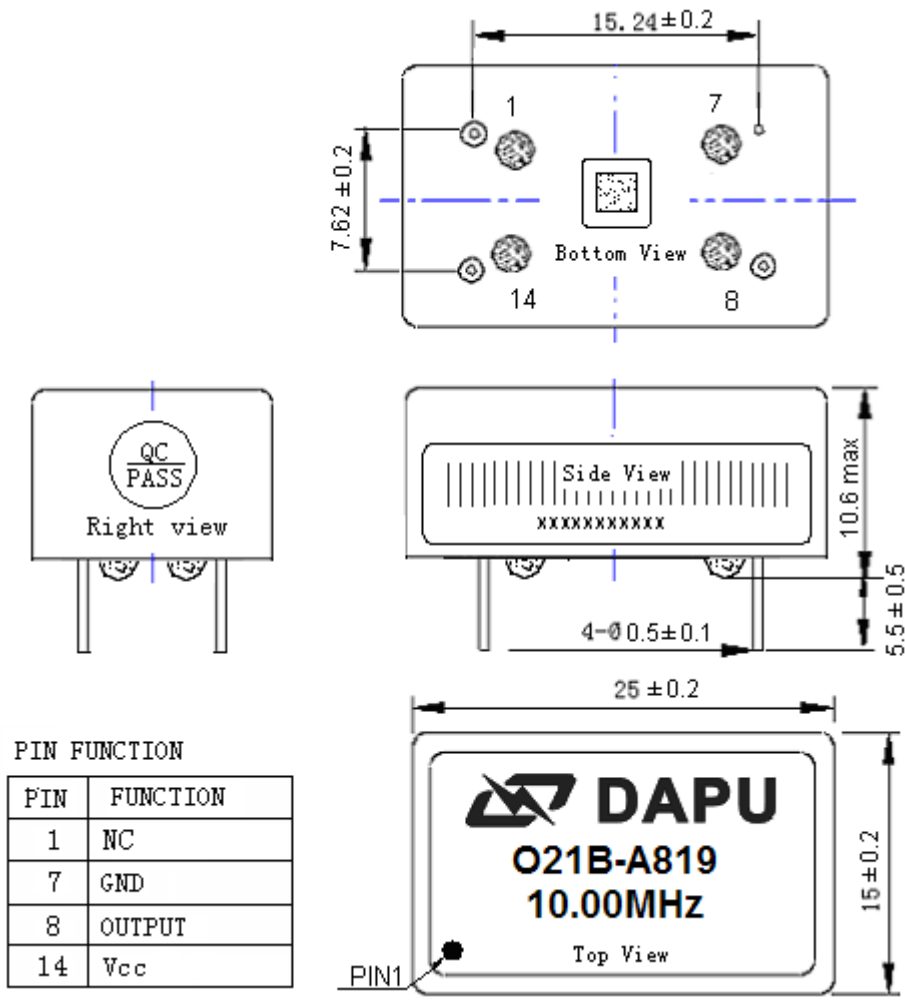
## 1、Electrical Parameters

MODEL: O21B-A819-10.00MHz						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Description	10.00			MHz	
	Output Waveform	LVCMOS				
	Output Low Voltage			+0.4	V	V <sub>cc</sub> =3.3V, O <sub>load</sub> =15pF
	Output High Voltage	+2.4			V	V <sub>cc</sub> =3.3V, O <sub>load</sub> =15pF
	Duty Cycle	40	50	60	%	@50%
	Rise / Fall Time (10%~90%)			6	ns	@25°C
	Load		15		pF	
Frequency Stabilities	Frequency Tolerance vs. Operating Temperature Range	-5		+5	ppb	T <sub>A</sub> varied from -10°C to 60°C, measurement referenced to frequency observed with T <sub>A</sub> =25°C, V <sub>cc</sub> =3.3V, O <sub>load</sub> =15pF, temperature rise speed less than 2°C per minute.
	Initial Frequency Tolerance	-0.1		+0.1	ppm	Measurement referenced to frequency observed with T <sub>A</sub> =25°C, V <sub>cc</sub> =3.3V, 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 <sub>A</sub> =25°C, V <sub>cc</sub> varied from 3.14V to 3.46V and O <sub>Load</sub> =15pF.
	Frequency Tolerance vs. Load	-5		+5	ppb	5% load change measurement referenced to frequency observed with T <sub>A</sub> =25°C, V <sub>cc</sub> =3.3V, and O <sub>Load</sub> =15pF.
	Short-Term Stability: Allan Variance			0.05	ppb	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	ppb	V <sub>cc</sub> , T <sub>A</sub> constant measurement referenced to frequency observed with T <sub>A</sub> =25°C, V <sub>cc</sub> =3.3V, and after 30 days of operation.
	Aging Tolerance 1 Year	-0.05		+0.05	ppm	
Power Supply	Supply Voltage	3.14	3.3	3.46	V	
	Steady Consumption			400	mA	@25°C
	Warm up current			800	mA	



Phase Noise	Phase Noise		-95		dBc/Hz	10Hz
			-120			100Hz
			-140			1KHz
			-145			10KHz
Environmental Conditions	Operable Temperature	-10		+60	°C	
	Storage Temperature	-40		+85	°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.				

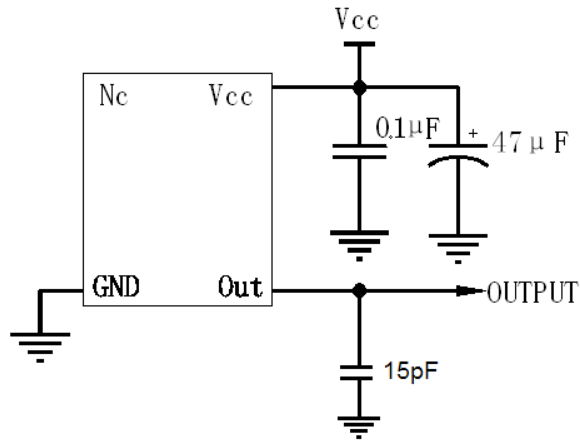
## 2、Mechanical Structure(mm)



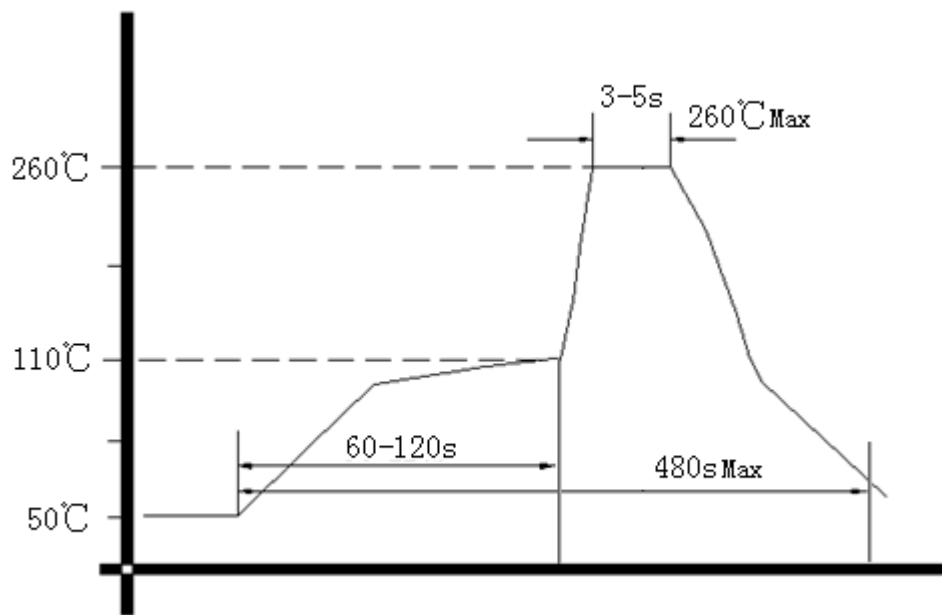
**Note1:** Referential Weight 6.6g



### 3、 Test Circuit



### 4、 Wave Soldering Curve (RoHS)



### 5、 Package: PVC Tube,11pcs (mm)

