

Customer Code : \_\_\_\_\_

# DATASHEET

DAPU P/N: 022B-1802-100.00MHz

Customer P/N: \_\_\_\_\_

DAPU			Customer Approval
Drew	Audited	Approved	Stamp, please! Thanks!
Date: 2023.07.11			

## Guangdong Dapu Telecom Technology Co.,Ltd

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## 1. Electrical Parameters

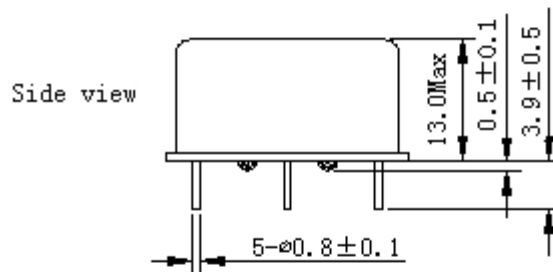
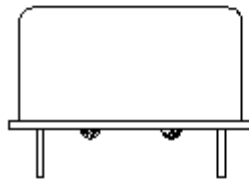
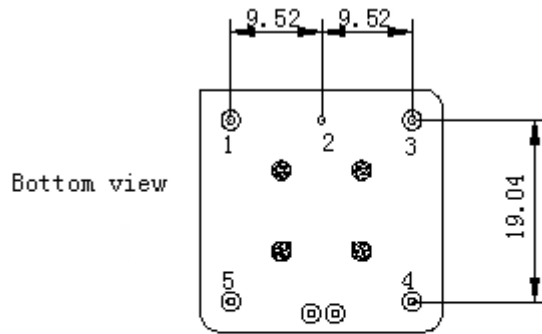
MODEL: O22B-1802-100.00MHz							
Item	Description	Parameters			Unit	Test Condition	
		Min.	Typ.	Max.			
Output	Frequency	100.00			MHz		
	Output Waveform	Sine wave					
	Level	12	15		dBm		
	Load	50			$\Omega$		
	Harmonics Suppression			-30	dBc		
	Spurious Suppression			-80	dBc		
	Start up Time			1	s	90% V <sub>CC</sub> to the correct frequency output time	
Frequency Stabilities	Frequency Accuracy	-0.2		+0.2	$\times 10^{-6}$	Within 90 days after shipment and 15 minutes warm up time(before reflow), Measurement referenced to nominal frequency	
	Frequency Tolerance vs. Operating Temperature Range	-0.2		+0.2	$\times 10^{-6}$	T <sub>A</sub> varied from -40°C to 85°C, measurement referenced to frequency observed with $f_{ref}=(f_{max}+f_{min})/2$ , V <sub>cc</sub> =5.0V, O <sub>load</sub> =50 $\Omega$ , temperature variable speed less than 2°C per minute.	
	Frequency Tolerance vs. supply voltage	-10		+10	$\times 10^{-9}$	measurement referenced to frequency observed T <sub>A</sub> =25°C, V <sub>cc</sub> varied from 4.75V to 5.25V, O <sub>load</sub> =50 $\Omega$ .	
	Frequency Tolerance vs. Load	-10		+10	$\times 10^{-9}$	10% Load Change Measurement referenced to frequency observed with T <sub>A</sub> =25°C, V <sub>cc</sub> =5.0V, O <sub>load</sub> =50 $\Omega$ .	
	Short Term Stability				0.05	$\times 10^{-9}$	Temperature stability, no EMI\EMC or other interference, test after power for 1hour ref. to 25°C; 1s.
					0.05	$\times 10^{-9}$	Temperature stability, no EMI\EMC or other interference, test after power for 1hour ref. to 25°C; 100s.
	Aging Tolerance per day	-2		+2	$\times 10^{-9}$	V <sub>cc</sub> , V <sub>c</sub> , T <sub>A</sub> constant Measurement referenced to frequency observed with T <sub>A</sub> =25°C, V <sub>cc</sub> =5.0V, O <sub>load</sub> =50 $\Omega$ and after 30 days of operation.	
	Aging Tolerance 1Year	-0.2		+0.2	$\times 10^{-6}$		
Aging Tolerance 10Years	-0.9		+0.9	$\times 10^{-6}$			



Power Supply	Supply Voltage	4.75	5.0	5.25	V	
	Steady Consumption		185	400	mA	@25°C
	Current Consumption during warm up			800	mA	
	Warm-Up Time			5	minutes	@25°C within $\pm 0.1 \times 10^{-6}$ of final frequency with reference after 1 hour on.
Phase Noise	Phase Noise			-105	dBc/Hz	10Hz
				-135		100Hz
				-160		1KHz
				-170		10KHz
				-176		100KHz
				-176		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; 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				

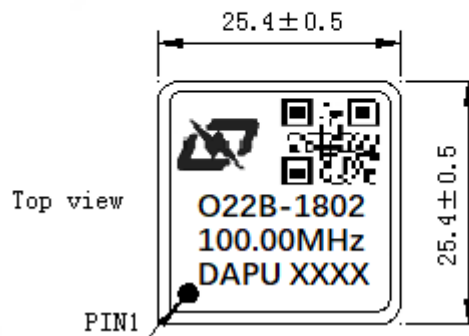


## 2. Mechanical Structure (mm)



### PIN FUNCTION

PIN	NOTATION	FUNCTION
1	OUTPUT	RF Output
2	GND	GND
3	NC	Not Connect
4	NC	Not Connect
5	VCC	Supply Voltage



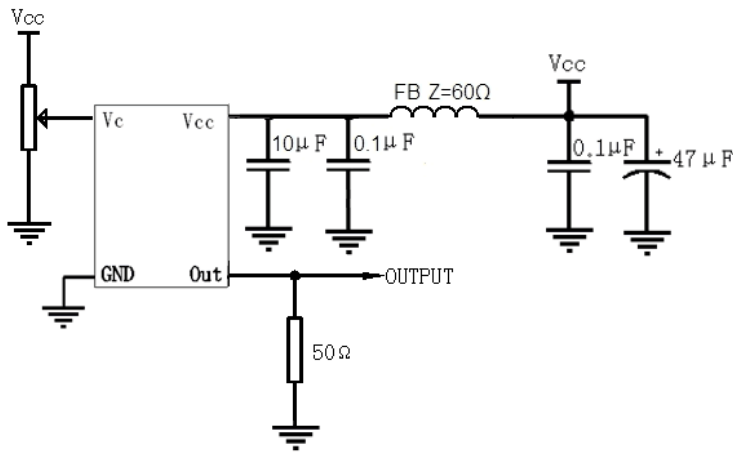
**Note1:** Tolerance  $\pm 0.20$ mm without mark

**Note2:** The first two xx representative: year  
After two xx representative: week

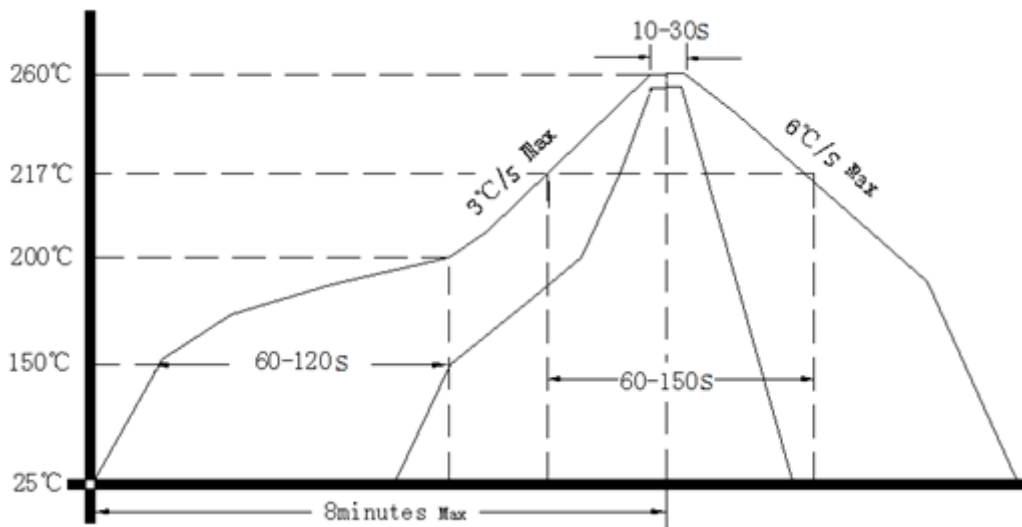
**Note3:** Referential weight 13.6g



### 3. Test Circuit



### 4. Reflow Soldering Curve (RoHS)



### 5. Package(mm)

