



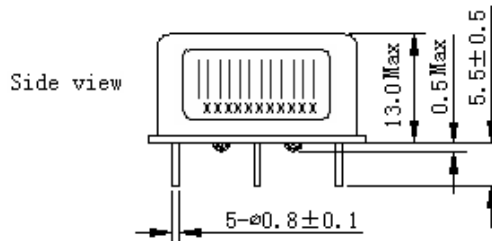
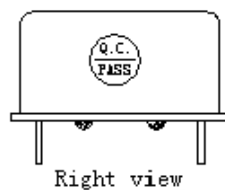
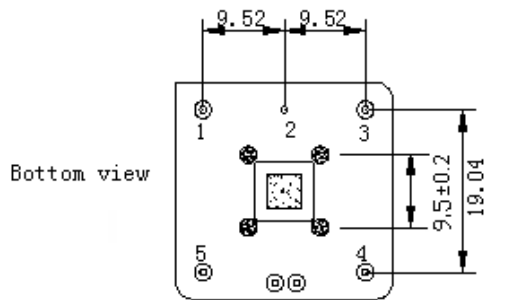
1、Electrical Parameters

MODEL: O22B-G819-20.00MHZ						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency	20.00			MHz	
	Output Waveform	LVCMOS				
	Duty Cycle	40	50	60	%	@50%
	Output low voltage			+0.4	V	V _{cc} =3.3V, O _{load} =15pF
	Output high voltage	+2.7			V	V _{cc} =3.3V, O _{load} =15pF
	Rise / Fall time (10% ~90%)			10	ns	@25°C
	Load		15		pF	
Frequency Stabilities	Frequency Tolerance vs. Operating Temperature Range	-0.01		+0.01	ppm	T _A varied from -20°C to 70°C, measurement referenced to frequency observed with T _A = 25°C, V _{cc} =3.3V, O _{load} =15pF, temperature rise speed less than 2°C per minute
	Initial Frequency Tolerance	-0.05		+0.05	ppm	Measurement referenced to frequency observed with T _A =25°C, V _{cc} =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 _A =25°C, V _{cc} varied from 3.14V to 3.47V, O _{load} =15pF
	Frequency Tolerance vs. Load	-5		+5	ppb	5% load change measurement referenced to frequency observed with T _A = 25°C, V _{cc} = 3.3V, and O _{load} =15pF
	Short-Term Stability: Allan Variance			0.01	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	-1		+1	ppb	V _{cc} , T _A constant Measurement referenced to frequency observed with T _A =25°C, V _{cc} = 3.3V, and after 30 days of operation
	Aging Tolerance 1 Year	-0.1		+0.1	ppm	
Power Supply	Supply Voltage	3.14	+3.3	3.47	V	
	Current Consumption			500	mA	After warm up time@25°C
	Current Consumption during warm up			1100	mA	



Phase Noise	Phase Noise		-110		dBc/Hz	10Hz
			-135			100Hz
			-145			1KHz
			-150			10KHz
			-152			100KHz
Environmental Conditions	Operable Temperature	-20		+70	°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.				

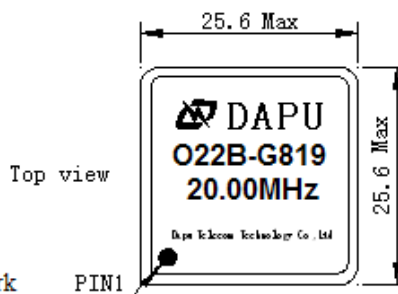
2、Mechanical Structure(mm)



PIN FUNCTION

PIN	FUNCTION
1	OUTPUT
2	GND
3	Nc
4	Nc
5	Vcc

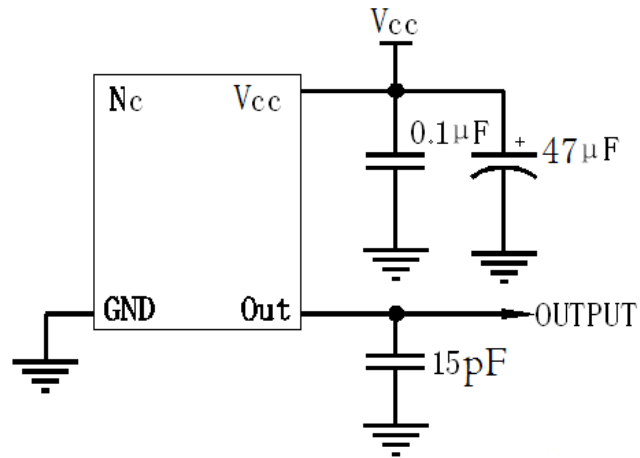
*Tolerance ±0.2mm without mark



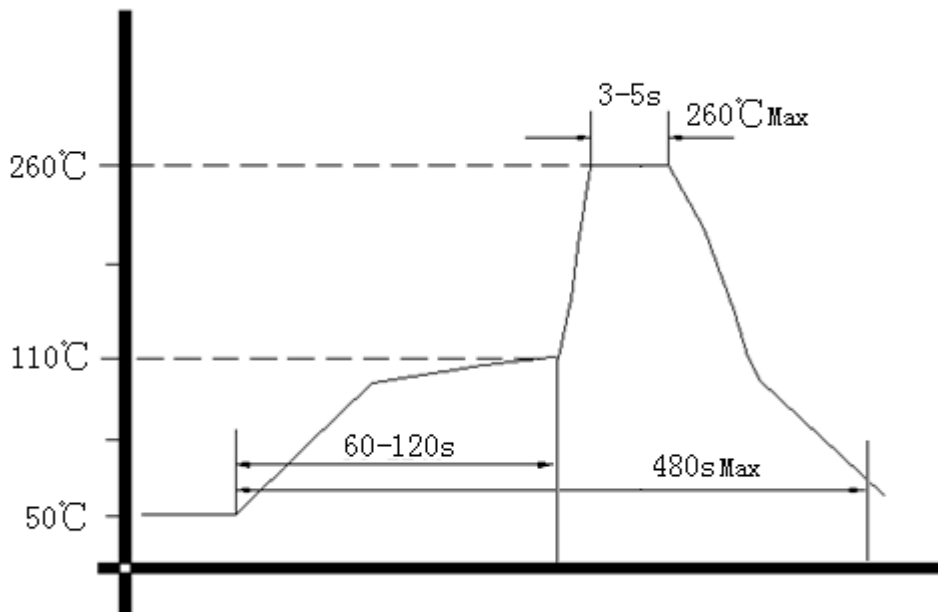
Note: Referential Weight 8.4g



3、 Test Circuit



4、 Wave Soldering Curve (RoHS)



5、 Package: PVC Tube, 9pcs

