

Customer Code : _____

DATASHEET

DAPU P/N: 022B-0806-100.00MHz

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DAPU			Customer Approval
Drew	Audited	Approved	Stamp, please! Thanks!
Date: 2018.11.07			

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1. Electrical Parameters

MODEL: O22B-0806-100.00MHz						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency	100.00			MHz	
	Output Waveform	HCMOS				
	Output Low Voltage			0.4	V	V _{cc} =5.0V, O _{load} =15pF
	Output High Voltage	2.4			V	V _{cc} =5.0V, O _{load} =15pF
	Duty Cycle	45	50	55	%	@50%
	Rise/Fall Time (10%~90%)			6	ns	
	Load	15			pF	
Frequency Stabilities	Frequency Tolerance vs. Operating Temperature Range	-0.05		+0.05	× 10 ⁻⁶	T _A varied from -40°C to 85°C, measurement referenced to frequency observed with f _{ref} =(f _{max} +f _{min})/2, V _{cc} =5.0V, V _c =2.5V, O _{load} =15pF, temperature variable speed less than 2°C per minute.
	Initial Frequency Tolerance	-0.2		+0.2	× 10 ⁻⁶	Measurement referenced to frequency observed with T _A =25°C, V _{cc} =5.0V, V _c =2.5V and after 15 minutes of operation, within 30 days after ex-works.
	Frequency Tolerance vs. supply voltage	-0.01		+0.01	× 10 ⁻⁶	measurement referenced to frequency observed T _A =25°C, V _{cc} varied from 4.75V to 5.25V, V _c =2.5V, O _{load} =15pF.
	Frequency Tolerance vs. Load	-0.01		+0.01	× 10 ⁻⁶	5% Load Change Measurement referenced to frequency observed with T _A =25°C, V _{cc} =5.0V, V _c =2.5V, O _{load} =15pF.
	Short Term Stability			0.01	× 10 ⁻⁹	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	-1.0		+1.0	× 10 ⁻⁹	V _{cc} , V _c , T _A constant Measurement referenced to frequency observed with T _A =25°C, V _{cc} =5.0V, V _c =2.5V, and after 30 days of operation.
	Aging Tolerance 1 Year	-0.1		+0.1	× 10 ⁻⁶	
Power Supply	Supply Voltage	4.75	5.0	5.25	V	
	Steady Consumption			400	mA	@25°C
	Warm up current			800	mA	

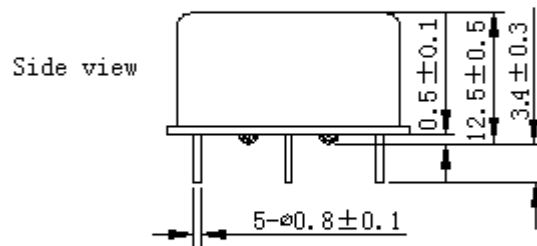
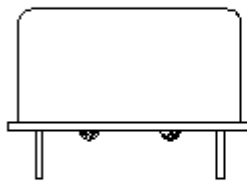
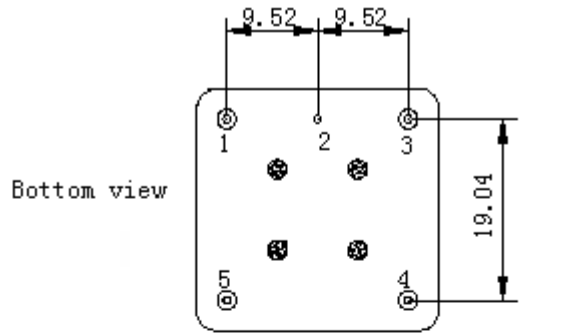


Warm-Up Time			2.5	minutes	@25°C within $\pm 0.1 \times 10^{-6}$ of final frequency with reference after 1 hour on.
			15	minutes	@25°C within $\pm 0.05 \times 10^{-6}$ of final frequency with reference after 1 hour on.

Voltage Control Characteristics	Frequency Tuning Range			-1.0	$\times 10^{-6}$	$V_c=0V$. measurement referenced to $V_c=2.5V$.
		-0.2		+0.2	$\times 10^{-6}$	$V_c=2.5V$. measurement referenced to exactly 100.00MHz.
		+1.0			$\times 10^{-6}$	$V_c=5.0V$. measurement referenced to $V_c=2.5V$.
	Linearity			10	%	
	Slope	Positive				
	Input Impedance	100				K Ω
Phase Noise	Phase Noise			-105	dBc/Hz	10Hz
				-135		100Hz
				-152		1KHz
				-162		10KHz
				-165		100KHz
				-165		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; ANSI/ESDA/JEDEC JS-001-2010.				
	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				

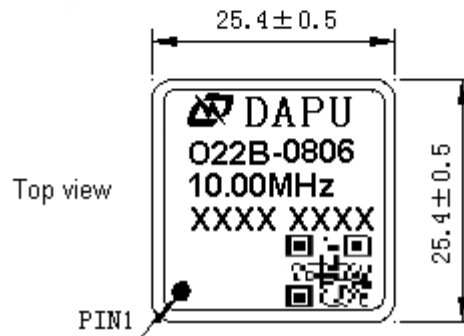


2. Mechanical Structure (mm)



PIN FUNCTION

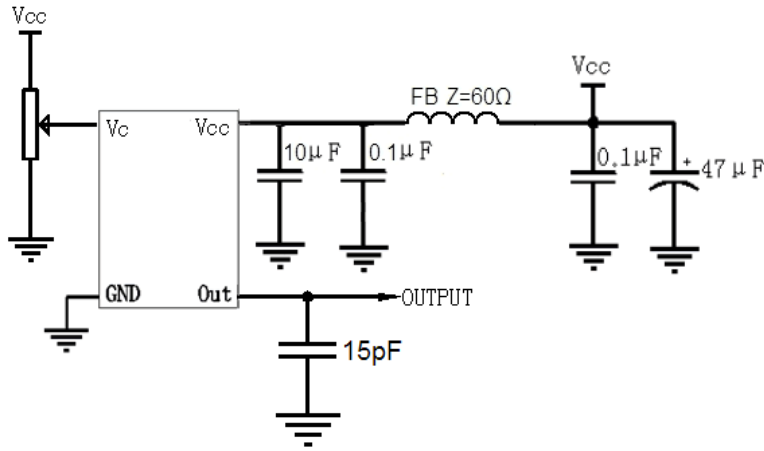
PIN	NOTATION	FUNCTION
1	OUTPUT	RF Output
2	GND	GND
3	VC	Control Voltage
4	NC	Not Connect
5	VCC	Supply Voltage



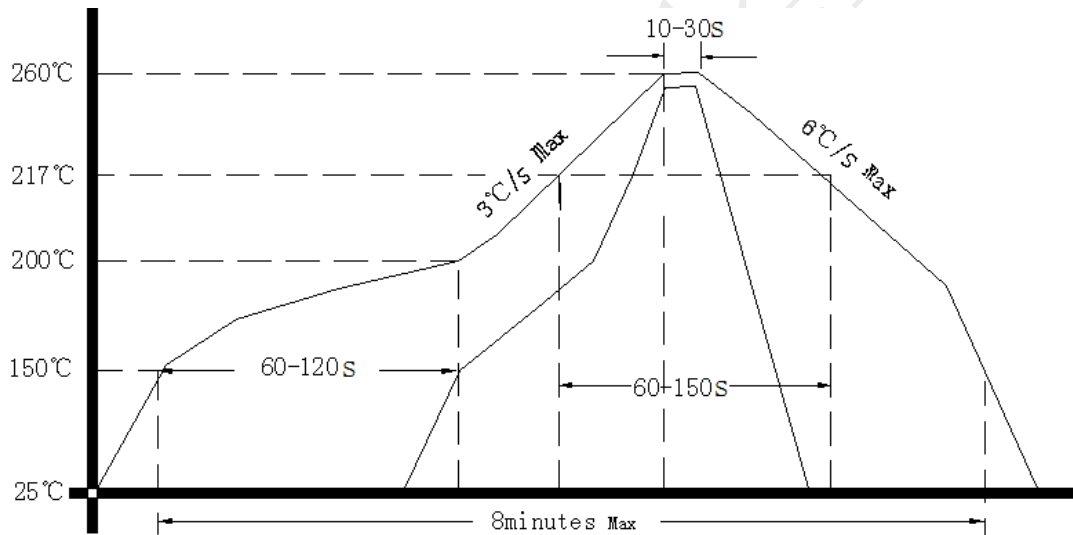
- Note1:** Tolerance $\pm 0.20\text{mm}$ without mark
- Note2:** The first two xx representative: week
After two xx representative: year
- Note3:** Referential weight 13.6g
- Note4:** NC is not connect



3. Test Circuit



4. Reflow Soldering Curve (RoHS)



5. Package(mm)

