

Customer Code : _____

DATASHEET

DAPU P/N: 023B-0425-10.00MHz

Customer P/N: _____

DAPU			Customer Approval
Drew	Audited	Approved	Stamp, please! Thanks!
Date: 2019.10.29			

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1. Electrical Parameters

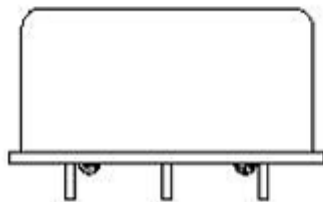
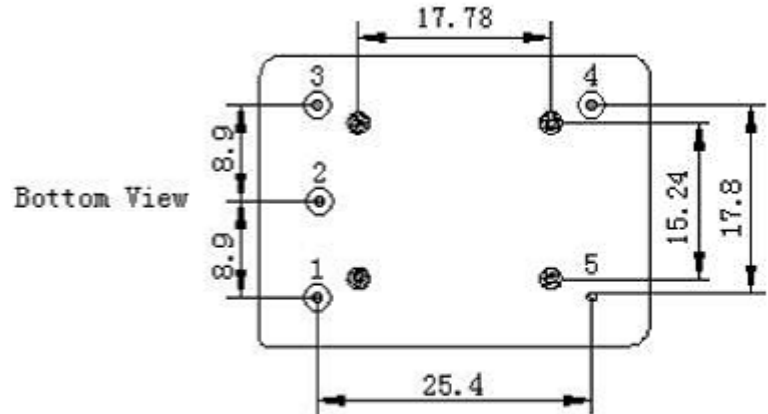
MODEL: O23B-O425-10.00MHz						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency	10.00			MHz	
	Output Waveform	Sine wave				
	Level	6		9	dBm	
	Load	50			Ω	
	Harmonics Suppression			-40	dBc	
	Sub Harmonics			-50	dBc	
	Spurious Suppression			-80	dBc	
Frequency Stabilities	Frequency Tolerance vs. Operating Temperature Range	-3		+3	$\times 10^{-9}$	T_A varied from -40°C to 85°C , measurement referenced to frequency observed with $T_A=25^\circ\text{C}$, $V_{cc}=5.0\text{V}$, $V_c=2.0\text{V}$, $O_{load}=50\Omega$, temperature variable speed less than 2°C per minute.
	Initial Frequency Tolerance	-0.1		+0.1	$\times 10^{-6}$	Measurement referenced to frequency observed with $T_A=25^\circ\text{C}$, $V_{cc}=5.0\text{V}$, $V_c=2.0\text{V}$ and after 15 minutes of operation, within 30 days after ex-works.
	Frequency Tolerance vs. supply voltage	-0.2		+0.2	$\times 10^{-9}$	measurement referenced to frequency observed $T_A=25^\circ\text{C}$, V_{cc} varied from 4.75 to 5.25V, $V_c=2.0\text{V}$, $O_{load}=50\Omega$.
	Frequency Tolerance vs. Load	-0.2		+0.2	$\times 10^{-9}$	5% Load Change Measurement referenced to frequency observed with $T_A=25^\circ\text{C}$, $V_{cc}=5.0\text{V}$, $V_c=2.0\text{V}$, $O_{load}=50\Omega$.
	Short Term Stability			0.01	$\times 10^{-9}$	Temperature stability, no EMI\EMC or other interference, test after power for 1hour ref. to 25°C ; 1s.
	Retrace	-5		+5	$\times 10^{-9}$	24 hours off & 1 hour operation.
	Holdover	-10		+10	μs	Holdover performance for 24H in still air.
	Aging Tolerance per day	-0.5		+0.5	$\times 10^{-9}$	V_{cc}, V_c, T_A constant Measurement referenced to frequency observed with $T_A=25^\circ\text{C}$, $V_{cc}=5.0\text{V}$, $V_c=2.0\text{V}$, $O_{load}=50\Omega$ and after 30 days of operation.
	Aging Tolerance 1 Year	-0.05		+0.05	$\times 10^{-6}$	
	Aging Tolerance 10 Year	-0.4		+0.4	$\times 10^{-6}$	



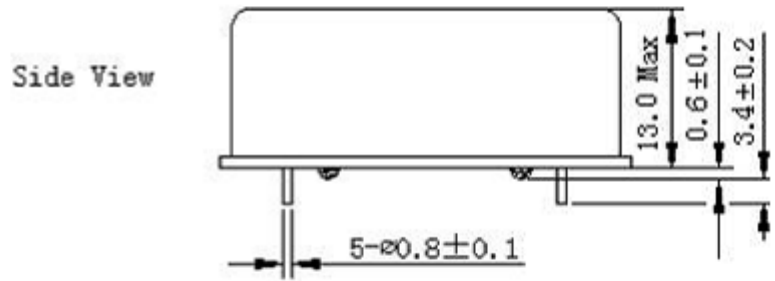
Power Supply	Supply Voltage	4.75	5.0	5.25	V	
	Steady Consumption			450	mA	@25°C
	Warm up current			1200	mA	
	Warm-Up Time			10	minutes	@25°C within $\pm 0.05 \times 10^{-6}$ of final frequency with reference after 1 hour on.
Voltage Control Characteristics	Frequency Tuning Range			-0.35	$\times 10^{-6}$	$V_c=0V$. measurement referenced to $V_c=2.0V$.
		-0.1		+0.1	$\times 10^{-6}$	$V_c=2.0V$. measurement referenced to exactly 10.00MHz.
		+0.35			$\times 10^{-6}$	$V_c=4.0V$. measurement referenced to $V_c=2.0V$.
	Linearity			10	%	
	Slope	Positive				
	Input Impedance	100			K Ω	
Phase Noise	Phase Noise			-93	dBc/Hz	1Hz
				-123		10Hz
				-140		100Hz
				-150		1KHz
				-150		10KHz
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)



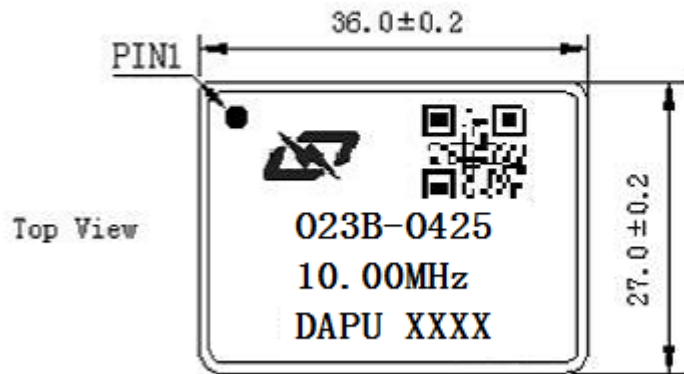
Right View



Side View

PIN FUNCTION

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

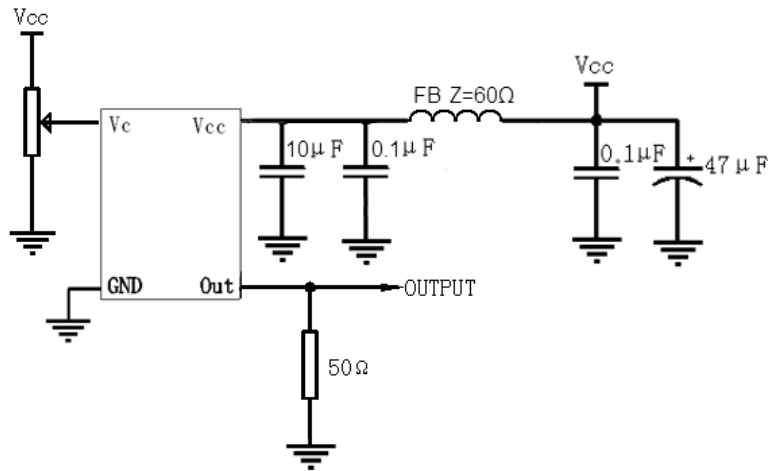


Top View

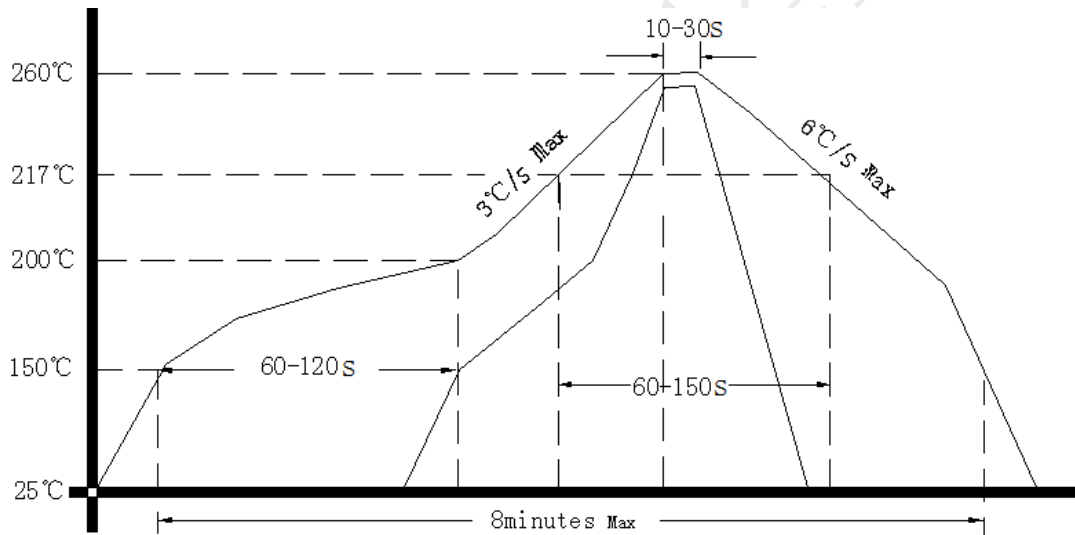
- Note1:** Tolerance ± 0.20 mm without mark
- Note2:** The first two xx representative: week
After two xx representative: year
- Note3:** Referential weight 21g
- Note4:** NC is not connect



3. Test Circuit



4. Reflow Soldering Curve (RoHS)



5. Package(mm)

