Customer Code : _____

DATASHEET

DAPU P/N: **O22A-J426-80.00MHz**

Customer P/N: _____

DAPU			Customer Approval
Drew	Audited	Approved	Stamp, please! Thanks!
Amway. wei	Tony · Wang	Jason zhao	
Date: 2024.05.28			

Guangdong Dapu Telecom Technology Co.,Ltd

Building 5, No.24, Industrial East Road, Songshanhu Park, Dongguan, Guangdong, P.R. China

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Table of amendment

Version	Revision contents	Prepared by	Revised date
1.0	The first issued	Amway	2024.05.28

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1. Electrical Parameters

MODEL： O22A-J426-80.00MHz						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency		80.00		MHz	
	Output Waveform		Sine wave			
	Level	7			dBm	
	Load		50		Ω	
	Harmonics Suppression			-30	dBc	
	Spurious Suppression			-40	dBc	
Frequency Stabilities	Frequency Tolerance vs. Operating Temperature Range	-0.02		+0.02	$\times 10^{-6}$	T_A varied from-40℃ to 85℃, measurement referenced to frequency observed with $f_{ref}=(f_{max}+f_{min})/2$, V_{cc}=5.0V, O_{load}=50Ω, temperature variable speed less than 2℃per minute.
	Initial Frequency Tolerance	-0.5		+0.5	$\times 10^{-6}$	Measurement referenced to frequency observed with T_A=25℃, V_{cc}=5.0V, V_c=2.15V and after 15 minutes of operation, within 30 days after ex-works.
	Frequency Tolerance vs. supply voltage	-0.01		+0.01	$\times 10^{-6}$	measurement referenced to frequency observed T_A=25℃, V_{cc} varied from 4.75V to 5.25V, V_c=2.15V, O_{load}=50Ω.
	Frequency Tolerance vs. Load	-0.01		+0.01	$\times 10^{-6}$	5% Load Change Measurement referenced to frequency observed with T_A=25℃, V_{cc}=5.0V, V_c=2.15V, O_{load}=50Ω.
	G-Sensitivity		1		$\times 10^{-9}$/g	worst direction, 0 ~1kHz vibration BW (for 0 ~2kHz BW consult the factory)
	Short-Term Stability: Allan Variance			0.05	$\times 10^{-9}$	Temperature stability, no EMI\EMC or other interference， test after power for 1hour ref. to 25℃; 1s.
	Aging Tolerance per day	-3		+3	$\times 10^{-9}$	V_{cc},V_c, T_A constant Measurement referenced to frequency observed with T_A=25℃,V_{cc}=5.0V, V_c=2.15V, O_{load}=50Ω and after 30 days of operation.
	Aging Tolerance 1Year	-0.3		+0.3	$\times 10^{-6}$	

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Power Supply	Supply Voltage	4.75	5.0	5.25	V	
	Steady Consumption			120	mA	@25℃
	Warm up current			450	mA	
	Reference Voltage	4.0		4.3	V	
	Warm-Up Time		90		s	@25℃within $\pm0.1\times10^{-6}$ of final frequency with reference after 1 hour on.
	Warm-Up Time		120		s	@25℃within $\pm0.01\times10^{-6}$ of final frequency with reference after 1 hour on.
Voltage Control Characteristics	Frequency Tuning Range			-1.5	$\times10^{-6}$	V_c=0V. measurement referenced to V_c=2.15V.
		-0.5		+0.5	$\times10^{-6}$	V_c=2.15V. measurement referenced to exactly 80.00MHz.
		+1.5			$\times10^{-6}$	V_c=4.3V measurement referenced to V_c=2.15V.
	Linearity			10	%	
	Slope	Positive				
	Input Impedance	100			KΩ	
Phase Noise	Phase Noise		-95	-90	dBc/Hz	10Hz
			-125	-120		100Hz
			-140	-135		1KHz
			-150	-140		10KHz
			-150	-140		100KHz
Environmental Conditions	Operable Temperature	-40		+85	℃	
	Storage Temperature	-55		+105	℃	
	Air-tightness			0.1×10^{-6}	Pa.cm3/s	
	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 (℃)	-10~35℃				

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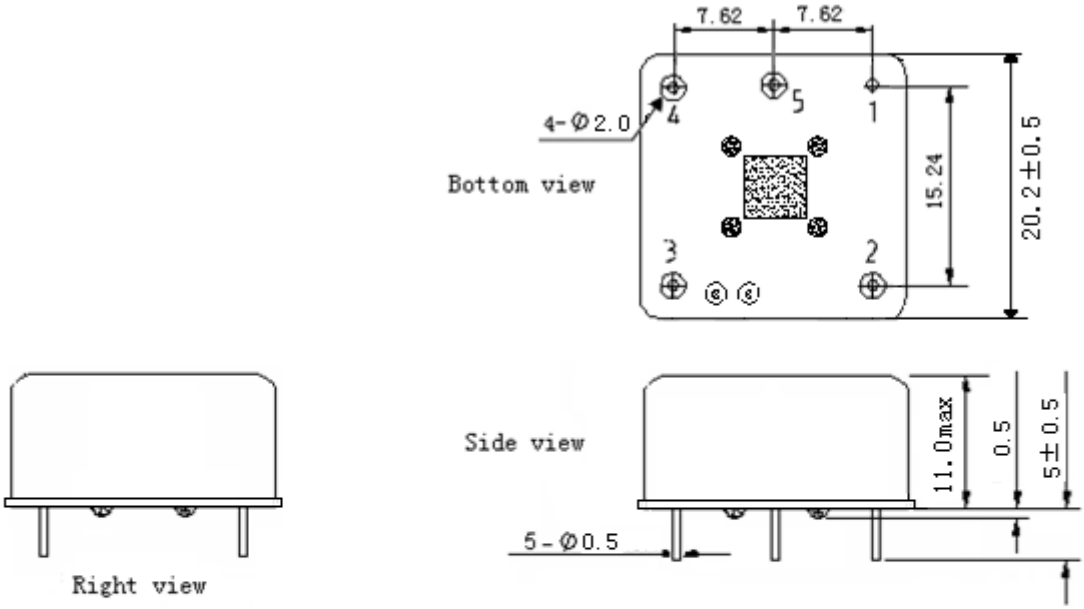
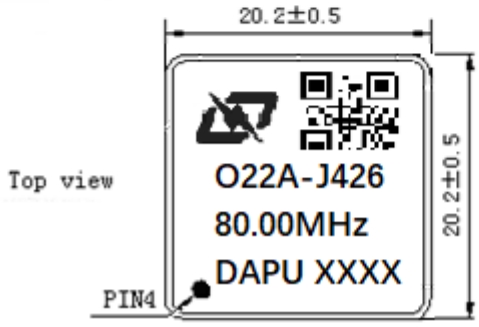
2. Mechanical Structure (mm)



PIN FUNCTION

PIN	NOTATION	FUNCTION
1	GND	GND
2	OUTPUT	RF Output
3	VCC	Supply Voltage
4	VC	Control Voltage
5	VREF	Reference Voltage



Note1: Tolerance ± 0.20mm without mark

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

Note3: Referential weight 8g

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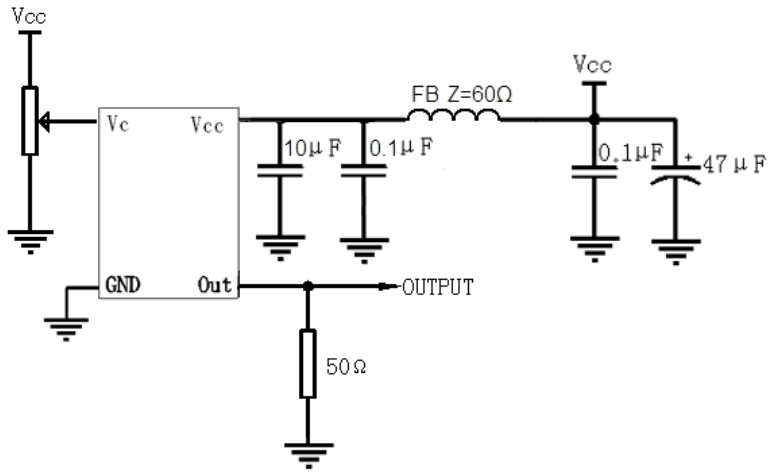
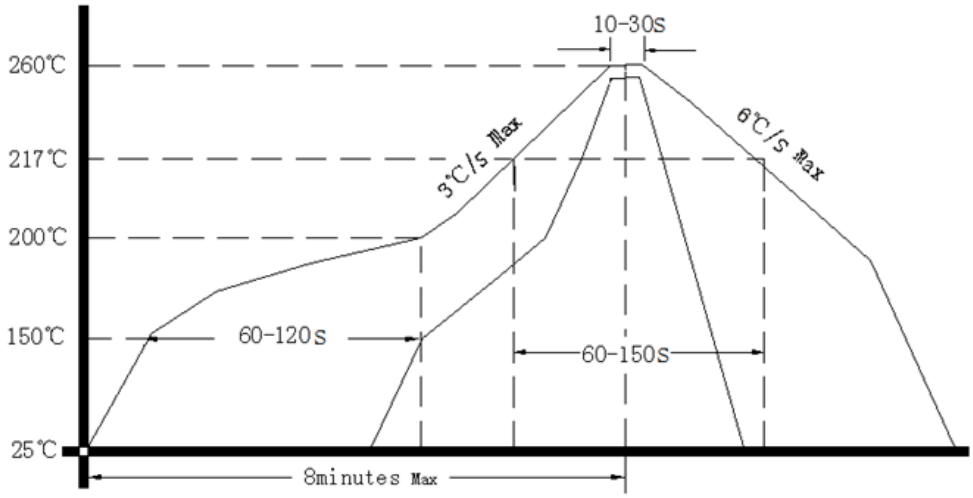
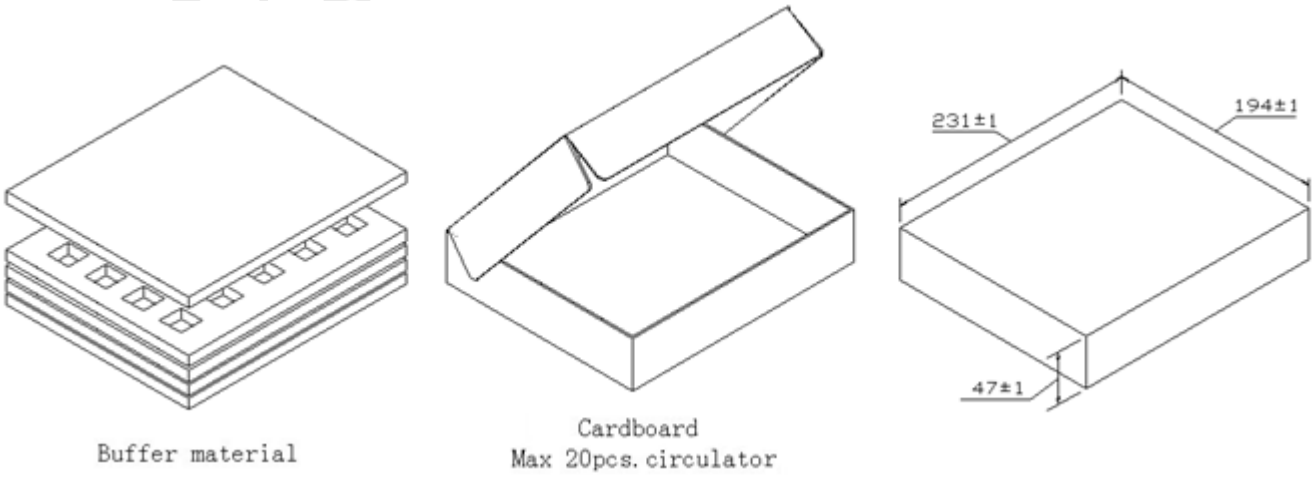
3. Test Circuit



4. Reflow Soldering Curve (RoHS)



5. Package(mm)



Buffer material

Cardboard
Max 20pcs. circulator