

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

# DATASHEET

DAPU P/N: JC-O22A-S326-10.00MHz

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

DAPU			Customer Approval
Drew	Audited	Approved	Stamp, please! Thanks!
Date: 2024.10.08			

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**Table of amendment**

Version	Revision contents	Prepared by	Revised date
1.0	The first issued	<i>Amway</i>	2024.10.08



## 1. Electrical Parameters

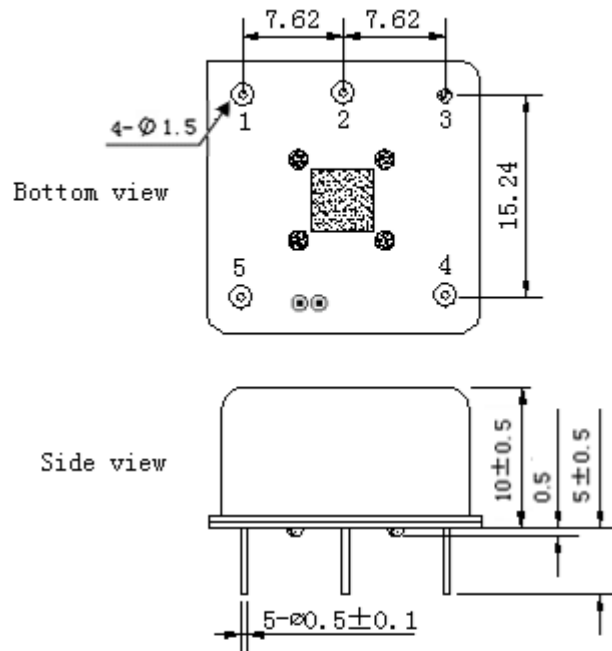
MODEL: JC-O22A-S326-10.00MHz						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency	10.00			MHz	
	Output Waveform	HCMOS				
	Output Low Voltage			0.4	V	V <sub>cc</sub> =5.0V, O <sub>load</sub> =15pF
	Output High Voltage	2.4			V	V <sub>cc</sub> =5.0V, O <sub>load</sub> =15pF
	Duty Cycle	45		55	%	@50%
	Load	15			pF	
	Sprious			-60	dBc	
Frequency Stabilities	Frequency Tolerance vs. Operating Temperature Range	-0.01		+0.01	× 10 <sup>-6</sup>	T <sub>A</sub> varied from -55°C to 85°C, measurement referenced to frequency observed with f <sub>ref</sub> =(f <sub>max</sub> +f <sub>min</sub> )/2, V <sub>cc</sub> =5.0V, V <sub>c</sub> =2.0V, O <sub>load</sub> =15pF, temperature variable speed less than 2°C per minute.
	Initial Frequency Tolerance	-0.2		+0.2	× 10 <sup>-6</sup>	Measurement referenced to frequency observed with T <sub>A</sub> =25°C, V <sub>cc</sub> =5.0V, V <sub>c</sub> =2.0V and after 15 minutes of operation, within 30 days after ex-works.
	Frequency Tolerance vs. supply voltage	-5		+5	× 10 <sup>-9</sup>	measurement referenced to frequency observed T <sub>A</sub> =25°C, V <sub>cc</sub> varied from 4.75V to 5.25V, V <sub>c</sub> =2.0V, O <sub>load</sub> =15pF.
	Frequency Tolerance vs. Load	-5		+5	× 10 <sup>-9</sup>	5% Load Change Measurement referenced to frequency observed with T <sub>A</sub> =25°C, V <sub>cc</sub> =5.0V, V <sub>c</sub> =2.0V, O <sub>load</sub> =15pF.
	Short Term Stability			0.01	× 10 <sup>-9</sup>	Temperature stability, no EMI\EMC or other interference, test after power for 1hour ref. to 25°C; 1s.
	Aging Tolerance per day	-0.5		+0.5	× 10 <sup>-9</sup>	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,
	Aging Tolerance 1 Year	-0.05		+0.05	× 10 <sup>-6</sup>	V <sub>cc</sub> =5.0V, V <sub>c</sub> =2.0V, O <sub>load</sub> =15pF and after 30 days of operation.
Power Supply	Supply Voltage	4.75	5.0	5.25	V	
	Reference Voltage	3.8		4.6	V	
	Current Consumption			300	mA	@25°C
	Current Consumption during warm up			700	mA	
	Warm-Up Time			5	minutes	@25°C within ±0.1 × 10 <sup>-6</sup> of final frequency with reference after 30 minutes on.



Voltage Control Characteristics	Frequency Tuning Range			-0.5	$\times 10^{-6}$	$V_c=0V$ . measurement referenced to $V_c=2.0V$ .
		-0.2		+0.2	$\times 10^{-6}$	$V_c=2.0V$ . measurement referenced to exactly 10.00MHz.
		+0.5			$\times 10^{-6}$	$V_c=4.0V$ . measurement referenced to $V_c=2.0V$ .
	Linearity			10	%	
	Slope	Positive				
	Input Impedance	100				K $\Omega$
Phase Noise	Phase Noise @25°C			-120	dBc/Hz	10Hz
				-140		100Hz
				-150		1KHz
				-155		10KHz
Environmental Conditions	Operable Temperature	-55		+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	Frequency range: 20Hz~2000Hz, acceleration : 6g , ASD:0.04g <sup>2</sup> /Hz one cycle per 30 min, test 2 hour. (3 times for each 3 directions X , Y , Z), GJB 150.16A-2009				
Shock	100g; 6ms; half sine wave (3 times for each 3 directions X , Y , Z ),GJB 360B-2009					
Full Package Storage	Relative humidity (%)	20% ~70%				
	Temperature (°C)	-10~35°C				

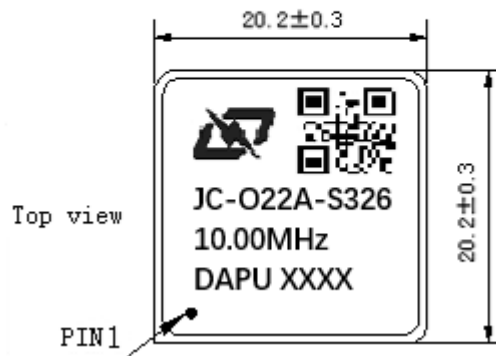


## 2. Mechanical Structure (mm)



PIN FUNCTION

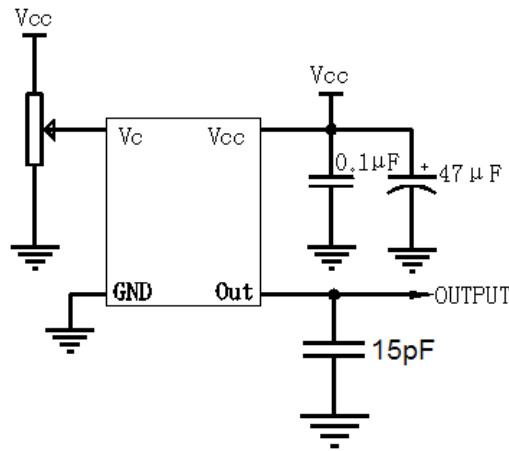
PIN	NOTATION	FUNCTION
1	VC	Control Voltage
2	VREF	Reference Voltage
3	GND	GND
4	OUTPUT	RF Output
5	VCC	Supply Voltage



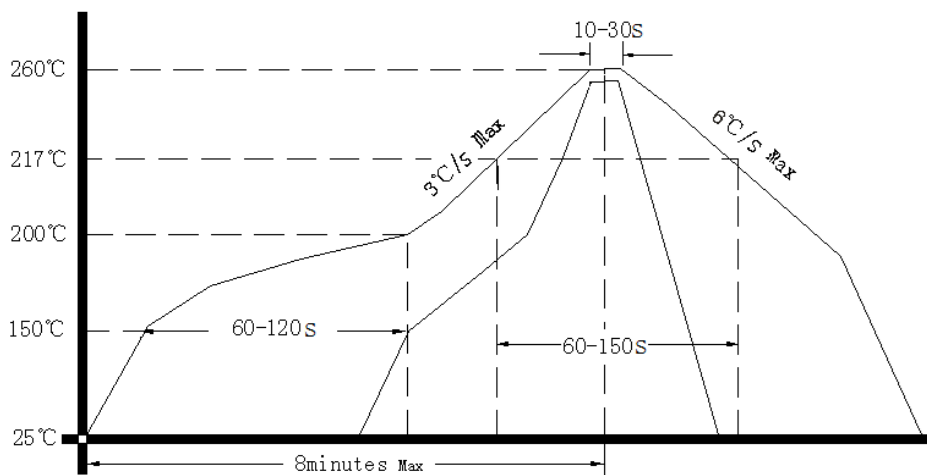
- Note1:** Tolerance  $\pm 0.2\text{mm}$  without mark
- Note2:** The first two xx representative: year  
After two xx representative: week
- Note3:** Referential Weight 8.0g



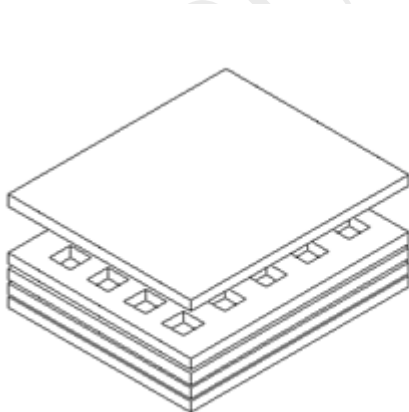
### 3. Test Circuit



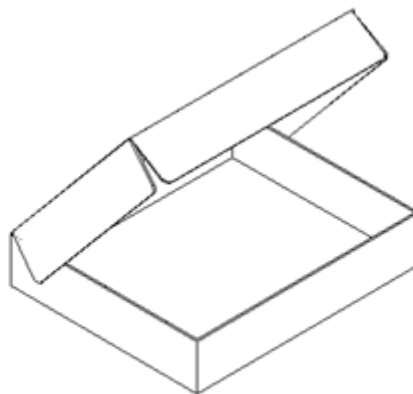
### 4. Reflow Soldering Curve (RoHS)



### 5. Package(mm)



Buffer material



Cardboard  
Max 20pcs. circulator

