

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

# DATASHEET

DAPU P/N: T11A-G326-10.00MHz

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

DAPU			Customer Approval
Drew	Audited	Approved	Stamp, please! Thanks!
Date: 2023.09.05			

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### Table of amendment

Version	Revision contents	Prepared by	Revised date
1.0	The first issued	<i>Amway</i>	2018.01.25
1.1	The "Phase Noise" changed	<i>Amway</i>	2023.09.05



## 1. Electrical Parameters

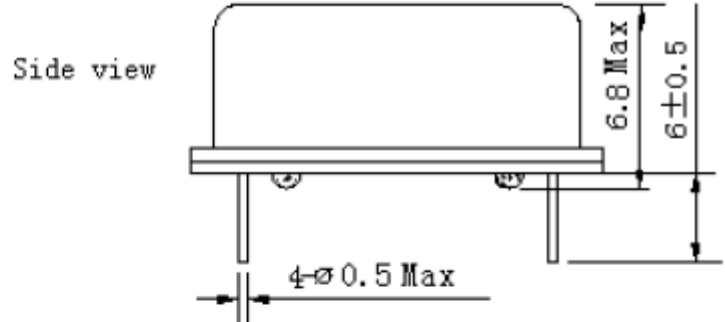
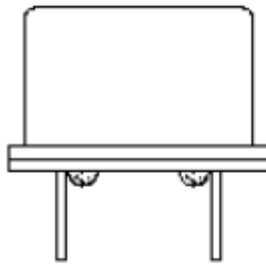
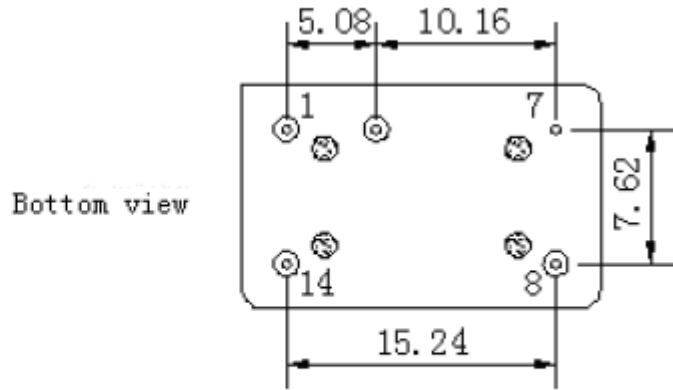
MODEL: T11A-G326-10.00MHz						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency	10.00			MHz	
	Output Waveform	LVCMOS				
	Output Low Voltage			0.5	V	$V_{cc}=5.0V, O_{load}=30pF$
	Output High Voltage	2.8		3.3	V	$V_{cc}=5.0V, O_{load}=30pF$
	Duty Cycle	45	50	55	%	@50%
	Rise / Fall Time (10%~90%)			5	ns	
	Load			30	pF	
Frequency Stabilities	Frequency Tolerance vs. Operating Temperature Range	-0.28		+0.28	$\times 10^{-6}$	$T_A$ varied from $-40^{\circ}C$ to $85^{\circ}C$ , measurement referenced to frequency observed with $T_A=25^{\circ}C, V_{cc}=5.0V, V_c=2.5V, O_{load}=30pF$ , temperature variable speed less than $2^{\circ}C$ per minute.
	Initial Frequency Tolerance	-1		+1	$\times 10^{-6}$	Measurement referenced to frequency observed with $T_A=25^{\circ}C \pm 2^{\circ}C, V_c=2.5V$ , within 30 days after ex-works.
	Frequency Tolerance vs. Supply Voltage	-0.2		+0.2	$\times 10^{-6}$	measurement referenced to frequency observed $T_A=25^{\circ}C, V_{cc}$ varied from 4.75V to 5.25V, $V_c=2.5V$ , and $O_{Load}=30pF$ .
	Frequency Tolerance vs. Load	-0.2		+0.2	$\times 10^{-6}$	$30 pF \pm 10\%, T_A=25^{\circ}C, V_{cc}=5.0V, V_c=2.5V$ .
	Aging Tolerance 1 Year	-1		+1	$\times 10^{-6}$	The average environmental temperature $40^{\circ}C$ .
	Aging Tolerance 10 Years	-3		+3	$\times 10^{-6}$	
Power Supply	Current Consumption			20	mA	@ $25^{\circ}C \pm 2^{\circ}C, V_{cc}=5.0V$ .
	Supply Voltage	4.75	5.0	5.25	V	



Voltage Control Characteristics	Frequency Tuning Range	-10		-5	$\times 10^{-6}$	$V_c=0V$ . measurement referenced to $V_c=2.5V$
		-1		+1	$\times 10^{-6}$	$V_c=2.5V$ . measurement referenced to exactly 10.00MHz
		+5		+10	$\times 10^{-6}$	$V_c=5.0$ . measurement referenced to $V_c=2.5V$
	Linearity	-10		+10	%	
	Slope	Positive				
	Input Impedance	100			K $\Omega$	
Phase Noise	Phase Noise @25 $^{\circ}C$		-90		dBc/Hz	10Hz
			-120			100Hz
			-140			1KHz
			-150			10KHz
			-155			100KHz
Environmental Conditions	Operable Temperature	-40		+85	$^{\circ}C$	
	Storage Temperature	-55		+125	$^{\circ}C$	
	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~2000Hz, one cycle per 30 min, test 2 hour. (3 times for each 3 directions X , Y , Z ) .IEC 68-2-06 Test Fc.				
Shock	100g; 6ms; 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 ( $^{\circ}C$ )	-10~35 $^{\circ}C$				



## 2. Mechanical Structure(mm)



### PIN FUNCTION

PIN	NOTATION	FUNCTION
1	VC	Control Voltage
7	GND	GND
8	OUTPUT	RF Output
14	VCC	Supply Voltage

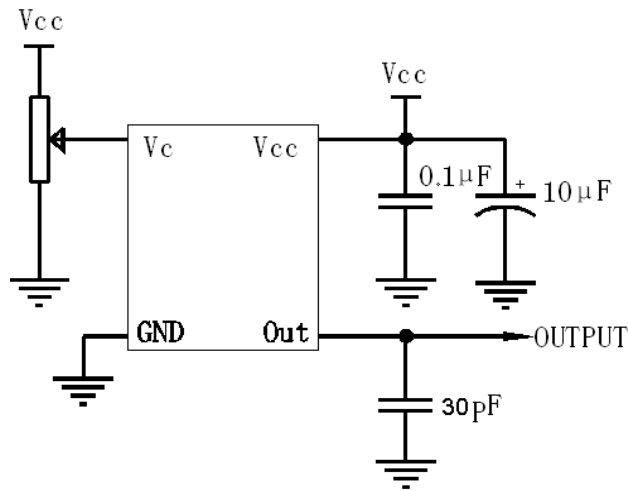
Top view



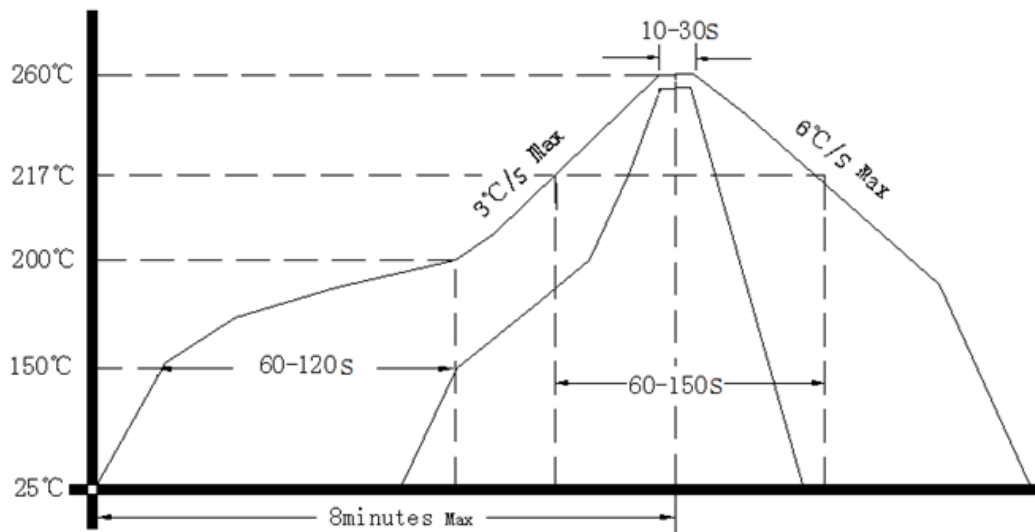
- Note1:** Tolerance  $\pm 0.20\text{mm}$  without mark  
**Note2:** The first two xx representative: year.  
 After two xx representative: week.  
 At last four xxxx representative: serial number.  
**Note3:** Referential weight 3.8g



### 3. Test circuit



### 4. Reflow Soldering Curve (RoHS)



### 5. Package: PVC Tube,10pcs (mm)

