

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

# DATASHEET

DAPU P/N: **T11A-F421-50.00MHz**

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DAPU			Customer Approval
Drew	Audited	Approved	Stamp, please! Thanks!
Date: 2019.01.11			

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## 1. Electrical Parameters

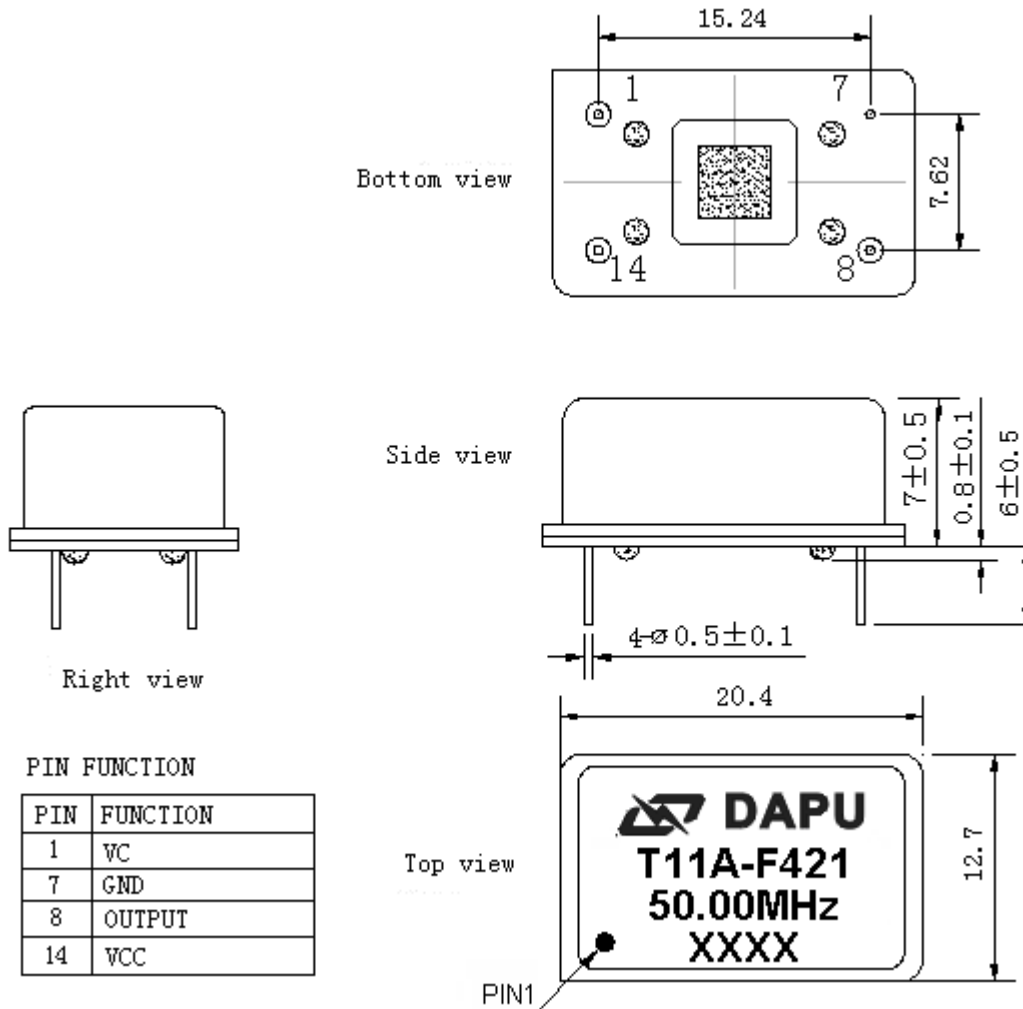
MODEL: T11A-F421-50.00MHz						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency	50.00			MHz	
	Output Waveform	Sine Wave				
	Level	+10			dBm	$V_{cc} = 5.0V, O_{load}=50\Omega.$
	Harmonics Suppression		-35		dBc	$V_{cc} = 5.0V, O_{load}=50\Omega.$
	Spurious Suppression		-75		dBc	
	Load	50			$\Omega$	
Frequency Stabilities	Frequency Tolerance vs. Operating Temperature Range	-0.5		+0.5	$\times 10^{-6}$	$T_A$ varied from $-40^\circ C$ to $85^\circ C$ , measurement referenced to frequency observed with $f_{ref}=(f_{max}+f_{min})/2$ , $V_{cc}=5.0V, V_c=2.0V$ , temperature variable speed less than $2^\circ C$ per minute.
	Initial Frequency Tolerance	-0.5		+0.5	$\times 10^{-6}$	Measurement referenced to frequency observed with $T_A=25^\circ C, V_{cc}=5.0V, V_c=2.0V$ , and after 15 minutes of operation, within 30 days after ex-works.
	Frequency Tolerance vs. Supply Voltage	-0.1		+0.1	$\times 10^{-6}$	measurement referenced to frequency observed $T_A=25^\circ C, V_{cc}$ varied from 4.75V to 5.25V, $V_c=2.0V$ and $O_{load}=50\Omega$ .
	Frequency Tolerance vs. Load	-0.1		+0.1	$\times 10^{-6}$	5% load change measurement referenced to frequency observed with $T_A=25^\circ C, V_{cc}=5.0V, V_c=2.0V$ , and $O_{load}=50\Omega$ .
	Aging Tolerance Per Day	-10		+10	$\times 10^{-9}$	$V_{cc}, V_c, T_A$ constant measurement referenced to frequency observed with $T_A=25^\circ C, V_{cc}=5.0V, V_c=2.0V$ and after 30 days of operation.
	Aging Tolerance Per Year	-0.5		+0.5	$\times 10^{-6}$	
Power Supply	Current Consumption			15	mA	@ $25^\circ C, V_{cc}=5.0V, O_{load}=50\Omega.$
	Supply Voltage	4.75	5.0	5.25	V	



Voltage Control Characteristics	Frequency Tuning Range			-2	$\times 10^{-6}$	$V_c=1.0V$ . measurement referenced to $V_c=2.0V$
		-0.5		+0.5	$\times 10^{-6}$	$V_c=2.0V$ . measurement referenced to exactly 50.00MHz
		+2			$\times 10^{-6}$	$V_c=3.0V$ . measurement referenced to $V_c=2.0V$
	Linearity			10	%	
	Slope	Positive				
Phase Noise	Phase Noise		-115		dBc/Hz	100Hz
			-135			1KHz
			-148			10KHz
			-152			100KHz
Environmental Conditions	Operable Temperature	-40		+85	$^{\circ}C$	
	Storage Temperature	-50		+95	$^{\circ}C$	
	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~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)



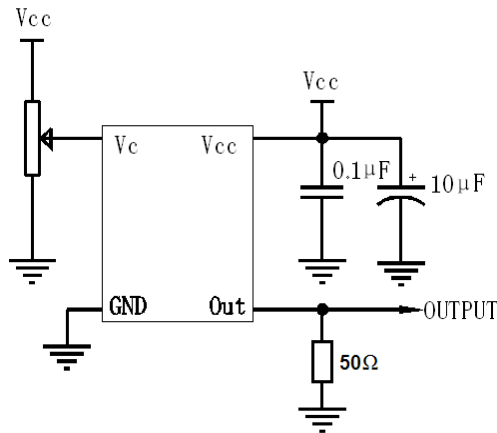
**Note1:** Tolerance ±0.2mm without mark

**Note2:** Referential Weight 3.8g

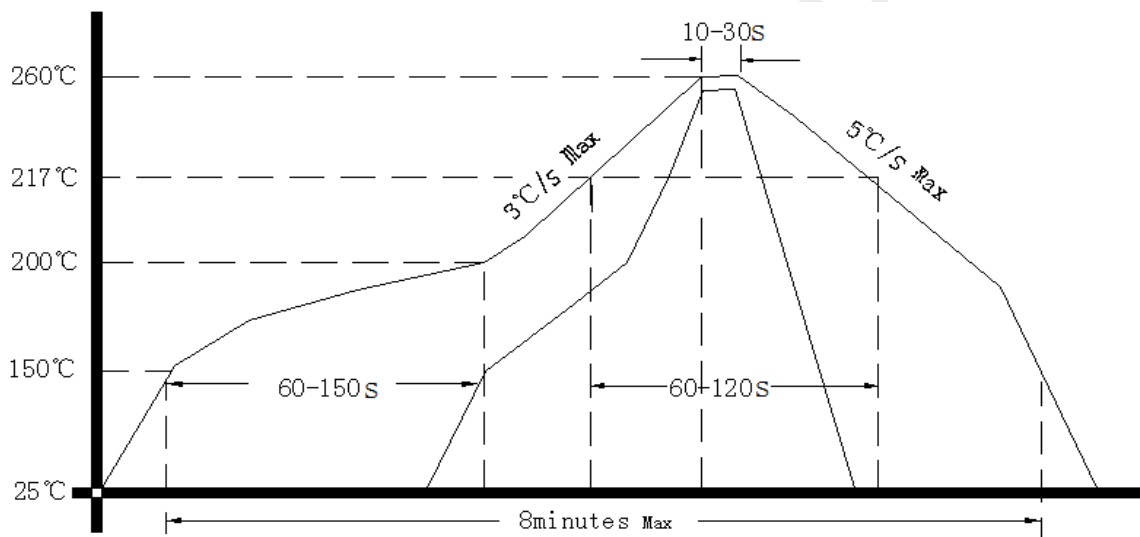
**Note3:** The first two xx representative: week  
After two xx representative: year



### 3. Test circuit



### 4. Reflow Soldering Curve (RoHS)



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

