

Customer Code : _____

DATASHEET

DAPU P/N: T75A-F321-18.432MHz

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DAPU			Customer Approval
Drew	Audited	Approved	Stamp, please! Thanks!
Date: 2021.03.02			

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1. Electrical Parameters

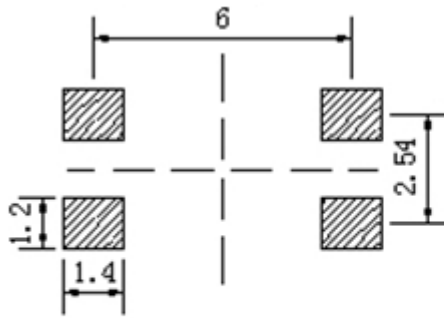
MODEL: T75A-F321-18.432MHz						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency	18.432			MHz	
	Output Waveform	HCMOS				
	Output Low Voltage			0.5	V	$V_{cc}=5.0V, O_{load}=15\text{ pF}$
	Output High Voltage	4.5			V	$V_{cc}=5.0V, O_{load}=15\text{ pF}$
	Duty Cycle	45	50	55	%	@50%
	Rise / Fall Time (10%~90%)			8	ns	@25°C
	Load	15			pF	$T_A = 25^\circ\text{C}, V_{cc} = 5.0V$
Frequency Stabilities	Frequency Tolerance vs. Operating Temperature Range	-1		+1	$\times 10^{-6}$	T_A varied from -40°C to 85°C , measurement referenced to frequency observed with $f_{ref}=(f_{max}+f_{min})/2$, $V_{cc}=5.0V, V_c=2.5V, O_{load}=15\text{pF}$, temperature variable speed less than 2°C per minute.
	Initial Frequency Tolerance	-1		+1	$\times 10^{-6}$	Measurement referenced to frequency observed with $T_A=25^\circ\text{C}, V_{cc}=5.0V, V_c=2.5V$ within 30 days after ex-works.
	Frequency Tolerance vs. Supply Voltage	-0.1		+0.1	$\times 10^{-6}$	measurement referenced to frequency observed $T_A=25^\circ\text{C}, V_{cc}$ varied from 4.75V to 5.25V, $V_c=2.5V$, and $O_{Load}=15\text{pF}$.
	Frequency Tolerance vs. Load	-0.1		+0.1	$\times 10^{-6}$	5% load change measurement referenced to frequency observed with $T_A=25^\circ\text{C}, V_{cc}=5.0V, V_c=2.5V$, and $O_{Load}=15\text{pF}$.
	Aging Tolerance Per Day	-0.01		-0.01	$\times 10^{-6}$	$T_A=25^\circ\text{C}, V_{cc}=5.0V, V_c=2.5V$, and after 1h of operation.
	Aging Tolerance 1 Year	-1		+1	$\times 10^{-6}$	
Power Supply	Operating Current			10	mA	@25°C, $V_{cc}=5.0V, O_{Load}=15\text{pF}$.
	Supply Voltage	4.75	5.0	5.25	V	



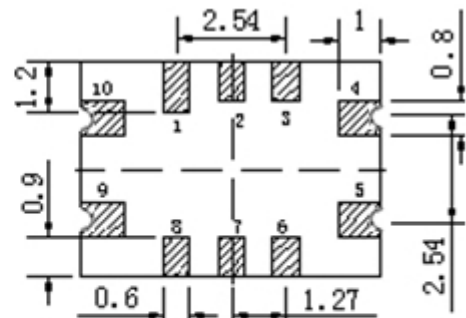
Voltage Control Characteristics	Frequency Tuning Range			-5	$\times 10^{-6}$	$V_c=0.5V$. measurement referenced to $V_c=2.5V$
		-1		+1	$\times 10^{-6}$	$V_c=2.5V$. measurement referenced to exactly 18.432MHz
		+5			$\times 10^{-6}$	$V_c=4.5V$. measurement referenced to $V_c=2.5V$
	Linearity			10	%	
	Slope	Positive				
	Input Impedance	100				K Ω
Phase Noise	Phase Noise @25°C			-50	dBc/Hz	1Hz
				-80		10Hz
				-114		100Hz
				-135		1KHz
				-145		10KHz
				-150		100KHz
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; JEDEC JESD22-A115C.				
	Moisture Sensitivity Level	Level 3.				
	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 (°C)	-10~35°C				



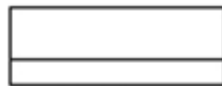
2. Mechanical Structure(mm)



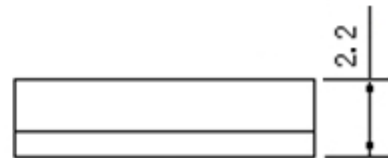
Solder pad layout



Bottom view



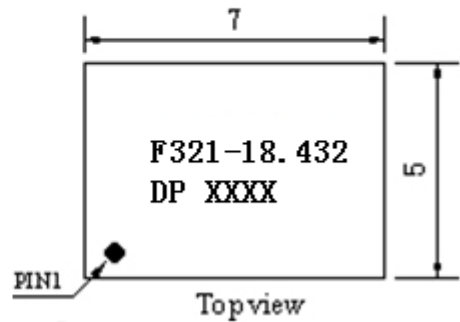
Right view



Front view

PIN FUNCTION

PIN	NOTATION	FUNCTION
1, 2, 3, 6, 7	NC	Not Connect
4	GND	GND
5	OUTPUT	RF Output
8	NC	Not Connect
9	VCC	Supply Voltage
10	VC	Control Voltage



Topview

Note1: Tolerance $\pm 0.20\text{mm}$ without mark

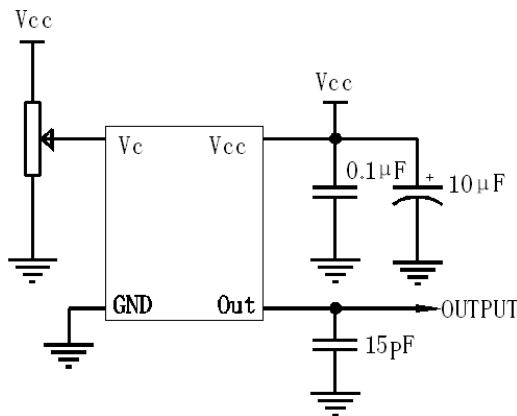
Note2: The first two xx representative: week

After two xx representative: year

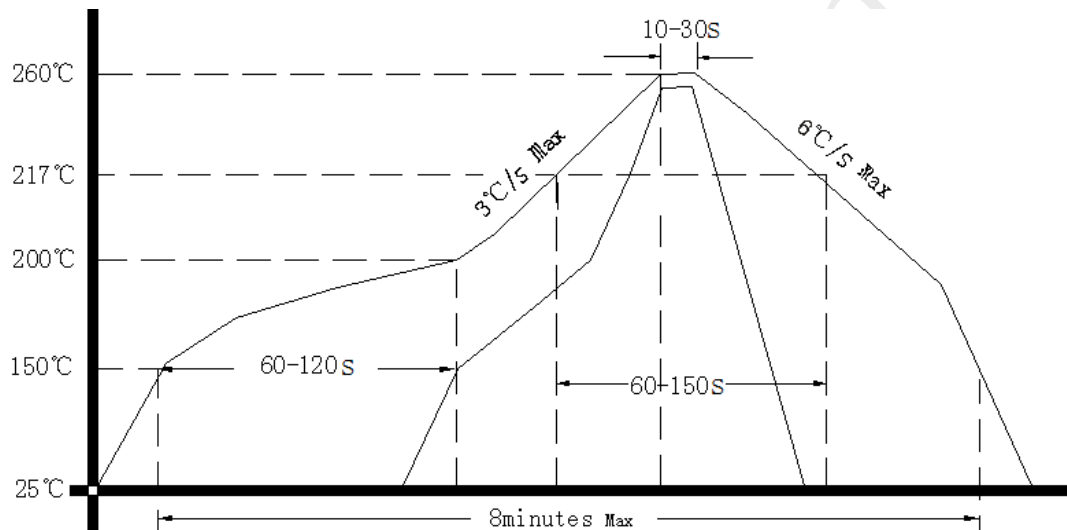
Note3: Referential weight 0.2g



3. Test Circuit



4. Reflow Soldering Curve (RoHS)



5. Package: Tape & Reel (mm)

