

Travelling Merchant: \_\_\_\_\_

# DATASHEET

Standard:     **T22A-H425-100.00MHz-K**    

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

Plot			The Label
Drew	Audited	Approved	Stamp, please! Thanks!
Date: 2022.05.16			

## Guangdong Dapu Telecom Technology Co.,Ltd

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

TEL: 0086-0769-88010888    FAX: 0086-0769-81800098





## 1. Electrical Parameters

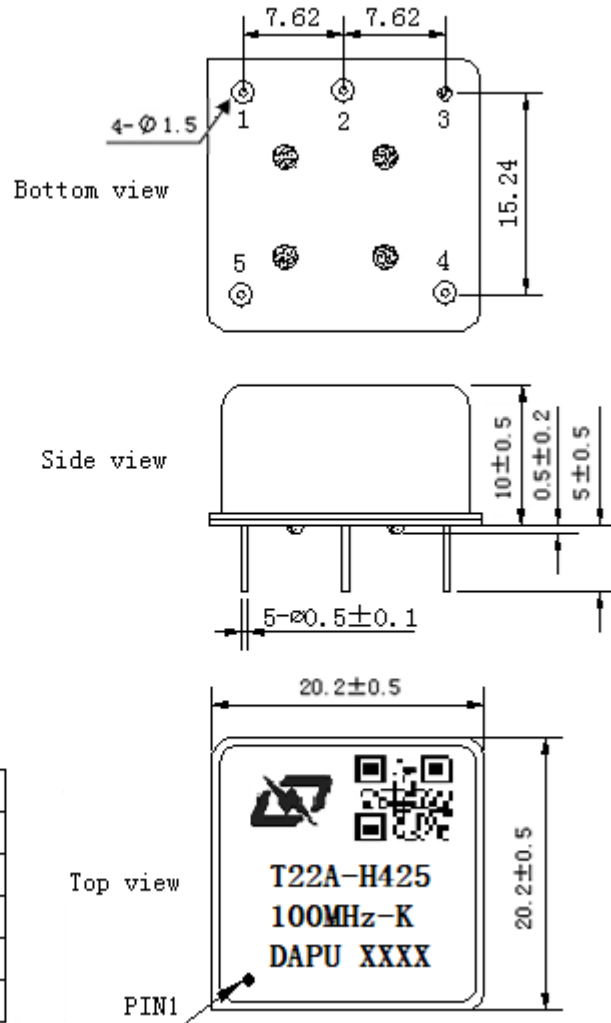
MODEL: T22A-H425-100.00MHZ-K						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency	100.00			MHz	
	Output Waveform	Sine Wave				
	Load	50			$\Omega$	
	Level	5			dBm	
	Spurious Suppression			-30	dBc	
	Harmonic suppression			-70	dBc	
Frequency Stabilities	Frequency Tolerance vs. Operating Temperature Range	-0.5		+0.5	$\times 10^{-6}$	$T_A$ varied from $-55^{\circ}\text{C}$ to $85^{\circ}\text{C}$ , measurement referenced to frequency observed with $f_{ref}=(f_{max}+f_{min})/2$ , $V_{cc}=5\text{V}$ , $V_c=1.65\text{V}$ , $O_{load}=50\Omega$ . temperature variable speed less than $2^{\circ}\text{C}$ per minute.
	Nominal Frequency Tolerance	-1		+1	$\times 10^{-6}$	Measurement referenced to frequency observed with $T_A=25^{\circ}\text{C}$ , $V_{cc}=5\text{V}$ , $V_c=1.65\text{V}$ 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, $V_c=1.65\text{V}$ 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 $T_A=25^{\circ}\text{C}$ , $V_{cc}=5\text{V}$ , $V_c=1.65\text{V}$ and $O_{Load}=50\Omega$ .
	Aging Tolerance Per Day	-0.01		+0.01	$\times 10^{-6}$	$T_A=25^{\circ}\text{C}$ , $V_{cc}=5\text{V}$ , $V_c=1.65\text{V}$ and after 1h of operation.
	Aging Tolerance 1 Year	-1		+1	$\times 10^{-6}$	
	Aging Tolerance 10 Years	-2.5		+2.5	$\times 10^{-6}$	
Power Supply	Operating Current		30		mA	@ $25^{\circ}\text{C}$ , $V_{cc}=5\text{V}$ , $V_c=1.65\text{V}$ , $O_{Load}=50\Omega$ .
	Supply Voltage	4.75	5	5.25	V	
Voltage Control	Frequency tuning range			-4	$\times 10^{-6}$	$V_c=0\text{V}$ . Measurement referenced to $V_c=1.65\text{V}$ .
		-1		+1	$\times 10^{-6}$	$V_c=1.65\text{V}$ . Measurement referenced to Exactly 100.00MHz.
		+4			$\times 10^{-6}$	$V_c=3.3\text{V}$ . Measurement referenced to $V_c=1.65\text{V}$ .
	Linearity			10	%	
	Slope	Positive				
	Input Impedance	100				$\text{K}\Omega$



Phase Noise	Phase Noise @25°C		-105		dBc/Hz	100Hz
			-145			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; 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.					



## 2. Mechanical Structure(mm)



### PIN FUNCTION

PIN	NOTATION	FUNCTION
1	VC	Control Voltage
2	NC	Not Connect
3	GND	GND
4	OUTPUT	RF Output
5	VCC	Supply Voltage

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

**Note2:** The first two xx representative: week

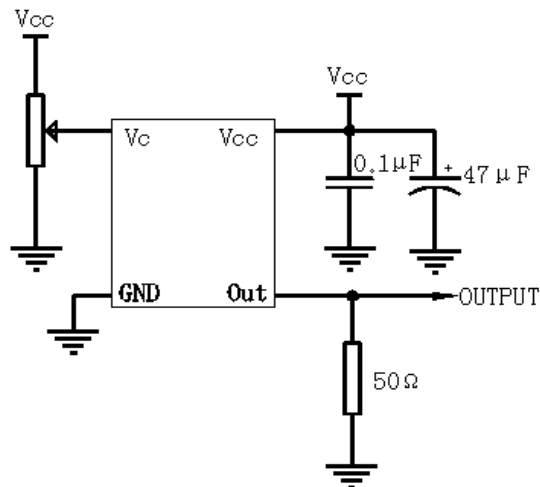
After two xx representative: year

**Note3:** Referential Weight 8g

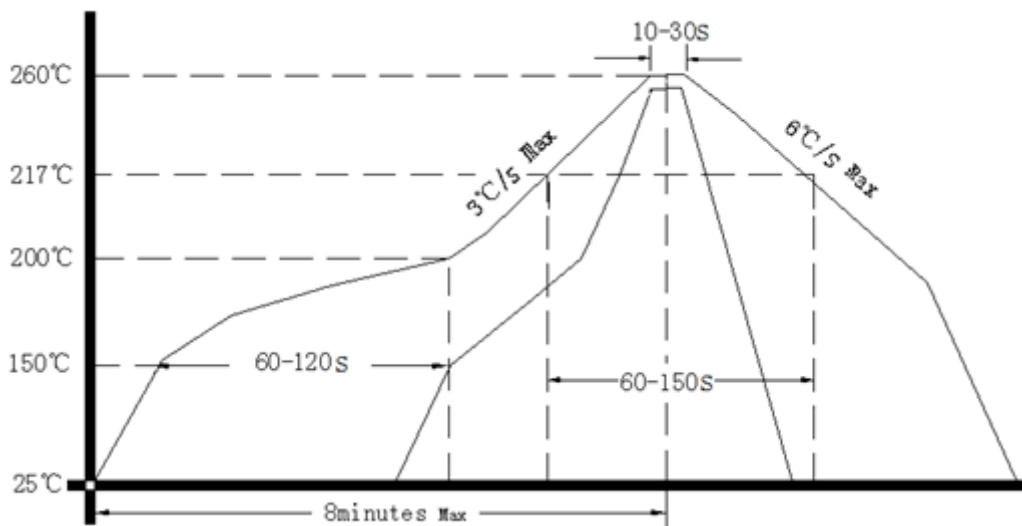
**Note4:** NC is not connect



### 3. Test Circuit



### 4. Reflow Soldering Curve (RoHS)



### 5. Package: Tape & Reel (mm)

