

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

# DATASHEET

Standard:           **O22B-Q429-100.00MHz**          

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

Plot			The Label
Drew	Audited	Approved	Stamp, please! Thanks!
Date: 2021.10.26			

## 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

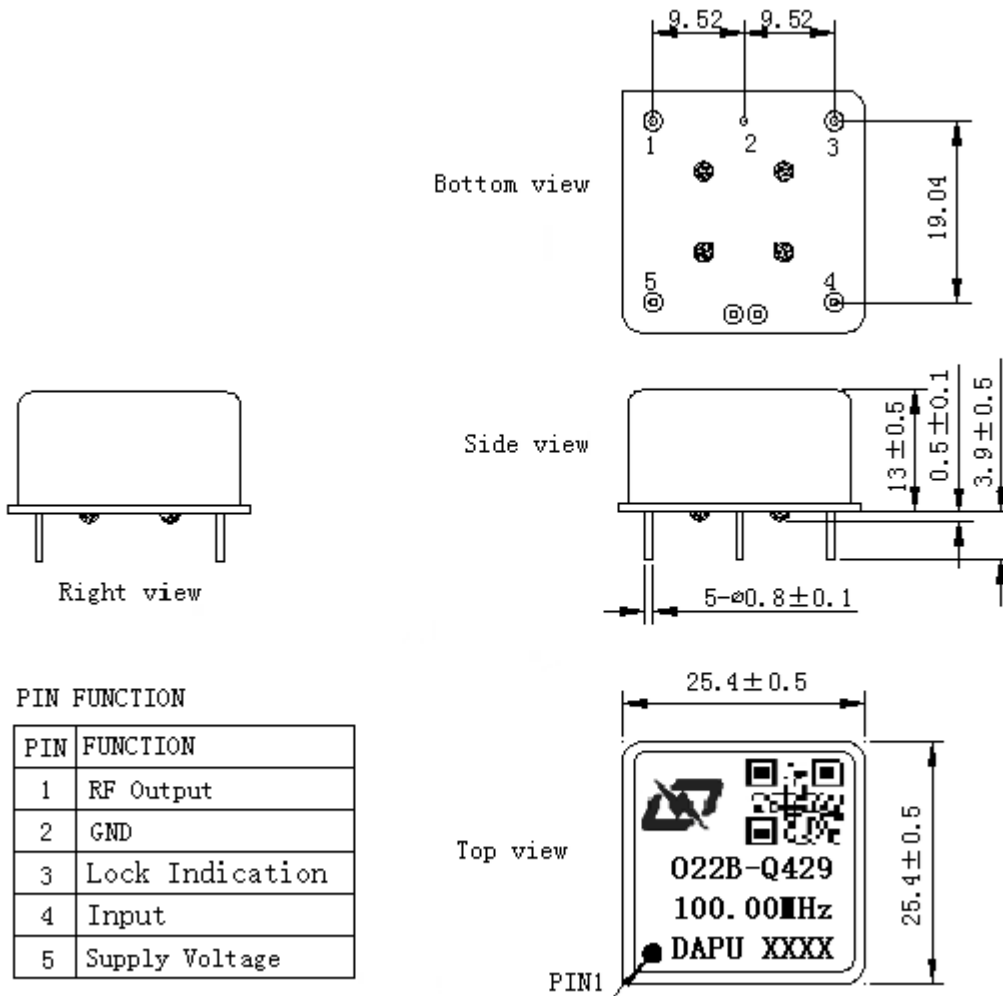
MODEL: O22B-Q429-100.00MHz						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Power Supply	Supply Voltage	4.75	5.0	5.25	V	
	Steady Consumption			300	mA	
	Warm up current			600	mA	
Input	Input Frequency	10.00			MHz	Pin 4
	Input Waveform	Sine wave				
	Level	1		8	dBm	
	Load	50			$\Omega$	
	Harmonics Suppression			-30	dBc	
	Spurious Suppression			-70	dBc	
Output	Output Frequency	100.00			MHz	Pin 1
	Output Waveform	Sine wave				
	Level	5			dBm	
	Load	50			$\Omega$	
	Harmonics Suppression			-70	dBc	
	Spurious Suppression			-30	dBc	
	Frequency Tolerance vs. Operating Temperature Range	-0.05		+0.05	$\times 10^{-6}$	$T_A$ varied from $-40^{\circ}\text{C}$ to $70^{\circ}\text{C}$ , measurement referenced to frequency observed with $f_{\text{ref}}=(f_{\text{max}}+f_{\text{min}})/2$ , $V_{\text{cc}}=5.0\text{V}$ , $O_{\text{load}}=50\Omega$ , temperature variable speed less than $2^{\circ}\text{C}$ per minute.
	Frequency Tolerance vs. Supply Voltage	-0.05		+0.05	$\times 10^{-6}$	Measurement referenced to frequency observed $T_A=25^{\circ}\text{C}$ , $V_{\text{cc}}$ varied from 4.75V to 5.25V, $O_{\text{load}}=50\Omega$ .
	Frequency Tolerance vs. Load	-0.05		+0.05	$\times 10^{-6}$	5% load change measurement referenced to frequency observed with $T_A=25^{\circ}\text{C}$ , $V_{\text{cc}}=5.0\text{V}$ , and $O_{\text{Load}}=50\Omega$ .
	Aging Tolerance 1 Year	-0.1		+0.1	$\times 10^{-6}$	$V_{\text{cc}}, T_A$ constant measurement referenced to frequency observed with $T_A=25^{\circ}\text{C}$ , $V_{\text{cc}}=5.0\text{V}$ , and after 30 days of operation.



Phase Noise	Phase Noise		-110	-105	dBc/Hz	10Hz
			-140	-135		100Hz
			-160	-155		1KHz
			-172	-167		10KHz
			-180	-175		100KHz
		Note: typical values in locked state and unlocked state. The test reference source is 10.00mhz OCXO				
Environmental Conditions	Operable Temperature	-40		+70	°C	
	Storage Temperature	-45		+85	°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 conditions: acceleration: 6g; 20Hz ~ 2000Hz, ASD: 0.04g <sup>2</sup> /Hz, one cycle every 30 minutes, test for 2 hours (3 times, 3 directions x, y, Z,); GJB 150.16A-2009				
Shock	100g, 6ms; Half sine wave (3 directions x, y, z), GJB 360G-2009					
Full Package Storage	Relative humidity (%)	20% ~ 70%				
	Temperature (°C)	-10~35°C				



## 2. Mechanical Structure(mm)



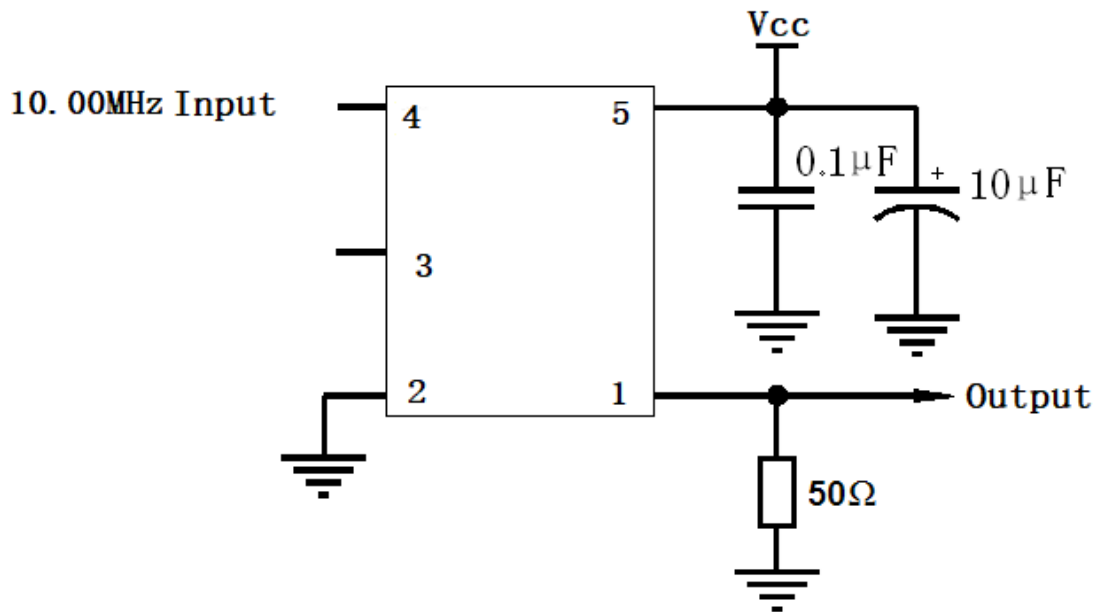
**Note1:** Tolerance ± 0.20mm without mark

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

**Note3:** Pin 3 description: When 100MHz is output and 10MHz is locked, the output high level is > 2.7V;  
Unlocked output low level < 0.4V



### 3. Test Circuit



### 4. Package(mm)

