Travelling Merchant:_____

DATASHEET

Standard: **O22A-H426-50.00MHz**

P/N: _____

Plot			The Label
Drew	Audited	Approved	
Date: 2018.09.10			Stamp, please! Thanks!

Guangdong Dapu Telecom Technology Co.,Ltd

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Table of amendment

Version	Revision contents	Prepared by	Revised date
1.0	The first issued	Amway	2018.09.10

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1. Electrical Parameters

MODEL：O22A-H426-50.00MHz						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency		50.00		MHz	
	Output Waveform		HCMOS			
	Output Low Voltage			0.4	V	V_{cc}=3.3V, O_{load}=15pF
	Output High Voltage	2.4			V	V_{cc}=3.3V, O_{load}=15pF
	Duty Cycle	45	50	55	%	@(Voh-Vol)/2
	Rise / Fall Time (10%~90%)			5	ns	
	Load		15		pF	
Frequency Stabilities	Frequency Tolerance vs. Operating Temperature Range	-3		+3	$\times 10^{-9}$	T_A varied from -40℃ to 85℃, measurement referenced to frequency observed with T_A= 25℃, V_{cc}=5.0V, V_c=2.5V, O_{load}=15pF , temperature rise speed less than 2℃per minute.
	Initial Frequency Tolerance	-0.05		+0.05	$\times 10^{-6}$	Measurement referenced to frequency observed with T_A=25℃, V_{cc}=5.0V, V_c=2.5V and after 15 minutes of operation, within 30 days after ex-works.
	Frequency Tolerance vs. supply voltage	-1		+1	$\times 10^{-9}$	measurement referenced to frequency observed T_A=25℃, V_{cc} varied from 4.75V to 5.25V, V_c= 2.5V , O_{load}=15pF .
	Frequency Tolerance vs. Load	-1		+1	$\times 10^{-9}$	5% Load Change Measurement referenced to frequency observed with T_A=25℃,V_{cc}=5.0V, V_c=2.5V, O_{load}=15pF .
	Aging Tolerance per day	-0.5		+0.5	$\times 10^{-9}$	V_{cc},V_c, T_A constant Measurement referenced to frequency observed with T_A=25℃,V_{cc}=5.0V ,V_c=2.5V, O_{load}=15pF and after 30 days of operation.
	Aging Tolerance 1Year	-0.05		+0.05	$\times 10^{-6}$	

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Power Supply	Supply Voltage	4.75	5.0	5.25	V	
	Steady Consumption			300	mA	@25℃
	Warm up current			650	mA	
	Warm-Up Time			5	min	@25℃within ±0.05×10^{-6} of final frequency with reference after 1 hour on.
Voltage Control Characteristics	Frequency Tuning Range	-0.8		-0.5	ppm	V_c=0V. measurement referenced to V_c=2.5V.
		-0.05		+0.05	ppm	V_c=2.5V. measurement referenced to exactly 10.00MHz.
		+0.5		+0.8	ppm	V_c=5.0V. measurement referenced to V_c=2.5V.
	Linearity			10	%	
	Slope	Positive				
	Input Impedance	100			KΩ	
Phase Noise	Phase Noise		-110	-100	dBc/Hz	10Hz
			-130	-120		100Hz
			-140	-135		1KHz
			-150	-145		10KHz
			-155	-150		100KHz
			-158	-153		1MHz
Environmental Conditions	Operable Temperature	-40		+85	℃	
	Storage Temperature	-55		+105	℃	
	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～500Hz, one cycle per 30 min, test 2 hour. (3 times for each 3 directions X ,Y , Z)， IEC 68-2-06 Test Fc.				
	Shock	50g；11ms；half sine wave (3 times for each 3 directions X ,Y, Z),IEC 68-2-27 Test Ea/Severity 50A.				

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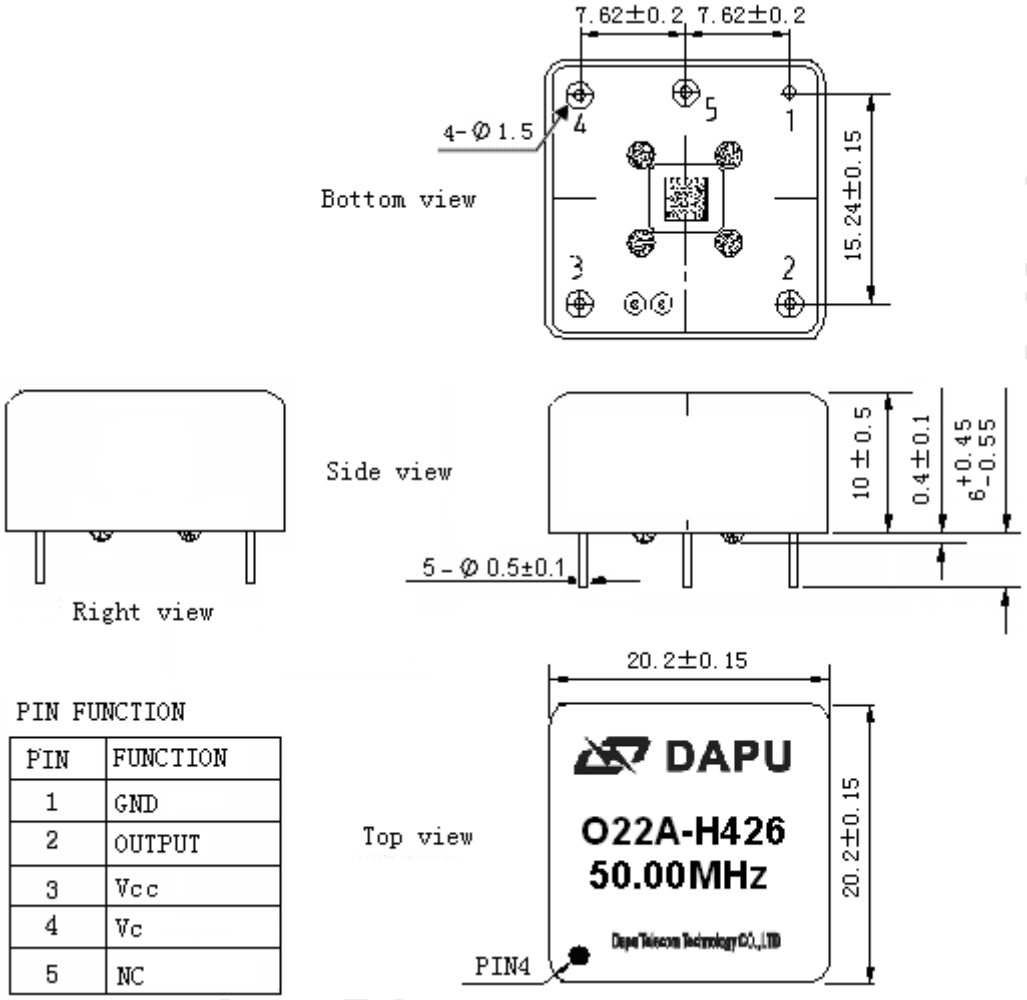
2. Mechanical Structure (mm)



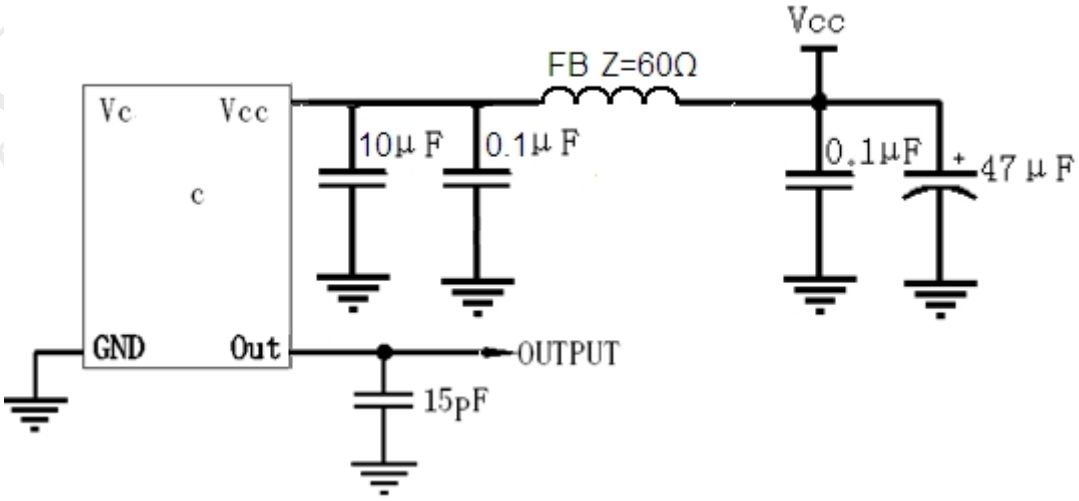
PIN FUNCTION

PIN	FUNCTION
1	GND
2	OUTPUT
3	Vcc
4	Vc
5	NC

Note1: Referential weight 11g

Note2: NC is not connect

3. Test Circuit



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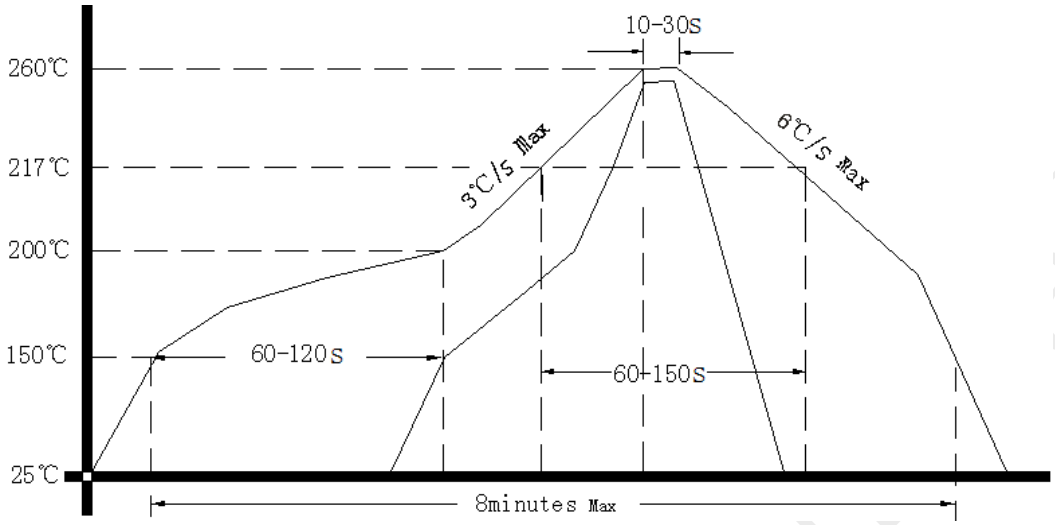
4. Wave Soldering Curve (RoHS)



5. Package(mm)