Travelling Merchant:_____

DATASHEET

Standard: **O22B-K428-10.00MHz**

P/N: _____

Plot			The Label
Drew	Audited	Approved	Stamp, please! Thanks!
Amway.wei	Tony · Wang	James.Liu	
Date: 2018.04.04			

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Table of amendment

Version	Revision contents	Prepared by	Revised date
1.0	The first issued	Amway	2014.03.28
1.1	“Frequency Tuning Range” and “Mechanical Structure” changed	Amway	2014.04.28
1.2	The” Mechanical Structure” changed	Amway	2018.04.04

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1. Electrical Parameters

MODEL：O22B-K428-10.00MHz						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency		10.00		MHz	
	Output Waveform		Sine wave			
	Level	6		10	dBm	
	Load		50		Ω	
	Harmonics Suppression			-40	dBc	
	Spurious Suppression			-70	dBc	
Frequency Stabilities	Frequency Tolerance vs. Operating Temperature Range	-5		+5	$\times 10^{-9}$	T_A varied from-40℃ to 85℃, measurement referenced to frequency observed with $f_{ref}=(f_{max}+f_{min})/2$, V_{cc}=5.0V, V_c=2.0V, O_{load}=50Ω, temperature variable 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=2.0V and after 15 minutes of operation, within 30 days after ex-works.
	Frequency Tolerance vs. supply voltage	-2		+2	$\times 10^{-9}$	measurement referenced to frequency observed T_A=25℃, V_{cc} varied from 4.75V to 5.25V, V_c=2.0V, O_{load}=50Ω.
	Frequency Tolerance vs. Load	-2		+2	$\times 10^{-9}$	5% Load Change Measurement referenced to frequency observed with T_A=25℃, V_{cc}=5.0V, V_c=2.0V, O_{load}=50Ω.
	Short Term Stability			0.01	$\times 10^{-9}$	Temperature stability, no EMI\EMC or other interference, test after power for 1hour ref. to 25℃; 1s, using PN9000 equipment.
	Aging Tolerance per day	-1		+1	$\times 10^{-9}$	V_{cc},V_c, T_A constant Measurement referenced to frequency observed with T_A=25℃,V_{cc}=5.0V, V_c=2.0V, O_{load}=50Ω and after 30 days of operation.
	Aging Tolerance 1Year	-0.1		+0.1	$\times 10^{-6}$	
Power Supply	Supply Voltage	4.75	5.0	5.25	V	
	Current Consumption			300	mA	@25℃
	Current Consumption during warm up			600	mA	
	Warm-Up Time			5	minutes	@25℃within $\pm 0.1\times 10^{-6}$ of final frequency with reference after 30 minutes on.

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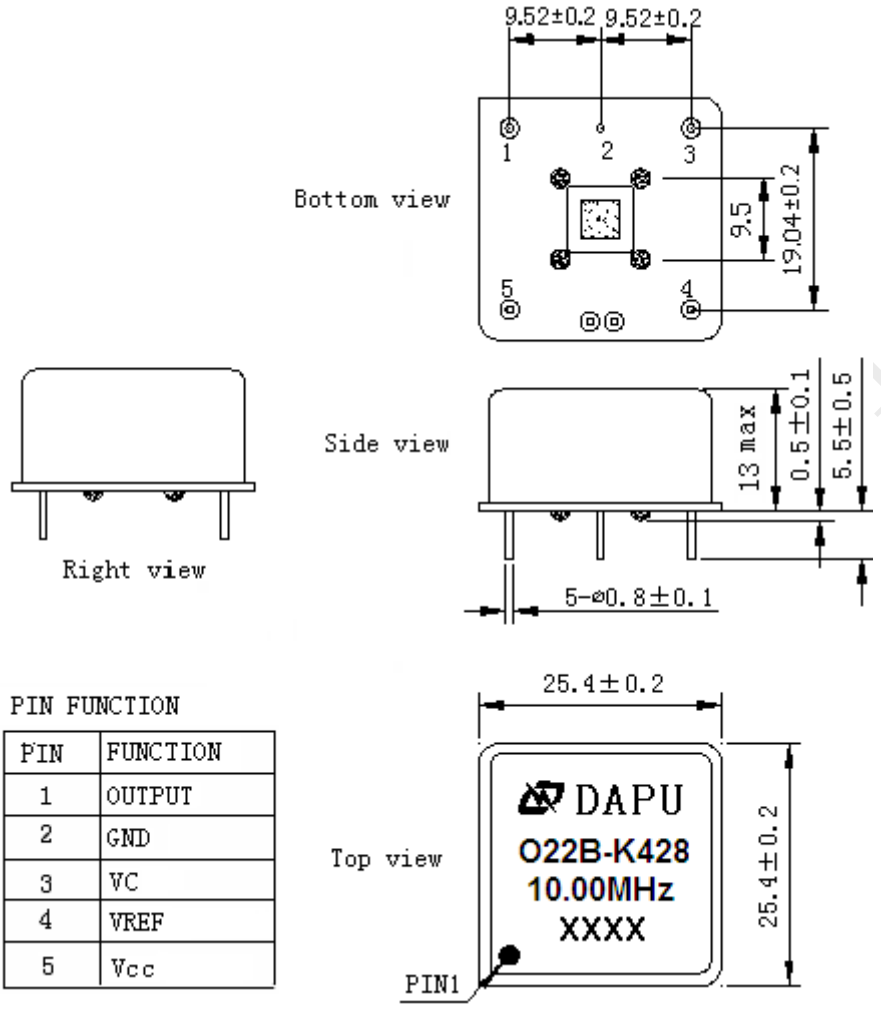
Voltage Control Characteristics	Frequency Tuning Range	-1.5		-0.5	$\times 10^{-6}$	V_c=0V. measurement referenced to V_c=2.0V.
		-0.05		+0.05	$\times 10^{-6}$	V_c=2.0V. measurement referenced to exactly 10.00MHz.
		+0.5		+1.5	$\times 10^{-6}$	V_c=4.0V. measurement referenced to V_c=2.0V.
	Linearity			10	%	
	Slope	Positive				
	Input Impedance	100			KΩ	
Phase Noise	Phase Noise @25℃		-120	-110	dBc/Hz	10Hz
			-140	-130		100Hz
			-155	-150		1KHz
			-158	-153		10KHz
			-158	-153		100KHz
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	Frequency range：20Hz～2000Hz, acceleration :6g, ASD: $0.04g^2$/Hz one cycle per 30 min, test 2 hour. (3 times for each 3 directions X ,Y , Z)，GJB 150.16A-2009				
	Shock	50g；11ms；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	FUNCTION
1	OUTPUT
2	GND
3	VC
4	VREF
5	Vcc

Note1: Tolerance ±0.2mm without mark

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

Note3: Referential Weight 13.6g

Note4: NC is not connect

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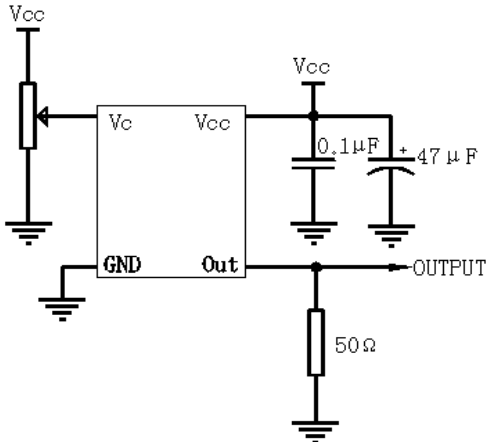
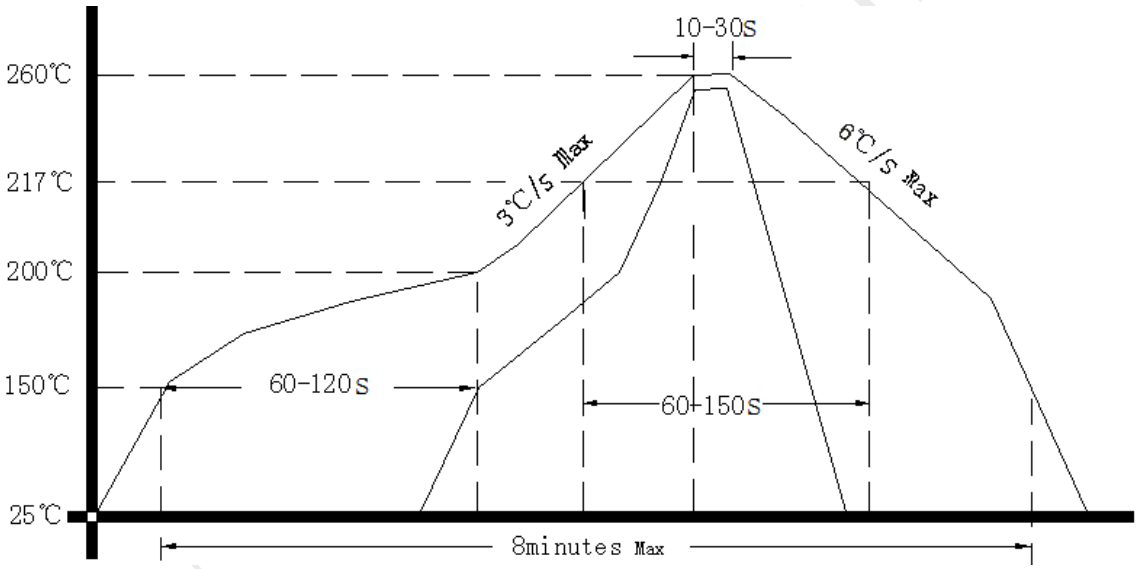
3. Test Circuit



4. Reflow Soldering Curve (RoHS)



5. Package(mm)