Customer Code : _____

DATASHEET

DAPU P/N: **O22B-Y428-100.00MHz**

Customer P/N: _____

DAPU			Customer Approval
Drew	Audited	Approved	Stamp, please! Thanks!
Amway.wei	Tony · Wang	James.Liu	
Date: 2015.12.22			

Guangdong Dapu Telecom Technology Co.,Ltd

Bldg 16,.N.Ind.Zone,SSL Industry Park, Dongguan City, Guangdong Province, China

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

Bldg 16,.N.Ind.Zone,SSL Industry Park,
Dongguan City, Guangdong Province,
PR China
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FAX:0086-0769-81800098

Table of amendment

Version	Revision contents	Prepared by	Revised date
1.0	The first issued	Amway	2014.04.21
1.1	"Level", " Spurious Suppression", " Aging Tolerance 1Year", "Current Consumption", "Current Consumption during warm up", "Phase Noise" and "Mechanical Structure" change	Amway	2014.09.01
1.2	"Test Circuit-Note" added "Electrical Parameters- Test Condition" and "Frequency adjust" changed	Amway	2014.11.24
1.3	Modified the 1st page "Full Package Storage" added "Current Consumption during warm up" and "Mechanical Structure" changed	Amway	2015.12.22

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1. Electrical Parameters

MODEL：O22B-Y428-100.00MHz						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency		100.00		MHz	
	Output Waveform		Sine wave			
	Level	7			dBm	
	Load		50		Ω	
	Harmonics Suppression			-30	dBc	
	Spurious Suppression			-70	dBc	
Frequency Stabilities	Frequency Tolerance vs. Operating Temperature Range	-0.05		+0.05	$\times 10^{-6}$	T_A varied from-40℃ to 70℃, measurement referenced to frequency observed with $f_{ref}=(f_{max}+f_{min})/2$, V_{cc}=5.0V, O_{load}=50Ω, temperature variable speed less than 2℃per minute.
	Initial Frequency Tolerance	-0.5		+0.5	$\times 10^{-6}$	Measurement referenced to frequency observed with T_A=25℃±2℃, V_{cc}=5.0V and after 15 minutes of operation, within 30 days after ex-works.
	Aging Tolerance per day	-5		+5	$\times 10^{-9}$	V_{cc},V_c, T_A constant Measurement referenced to frequency observed with T_A=25℃,V_{cc}=5.0V, 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			250	mA	@25℃±2℃
	Current Consumption during warm up			650	mA	@25℃±2℃
Frequency adjust	Frequency Adjust Range			-1.0	$\times 10^{-6}$	V_c =0V, relative to the nominal frequency.
		+1.0			$\times 10^{-6}$	V_c =5.0V, relative to the nominal frequency.

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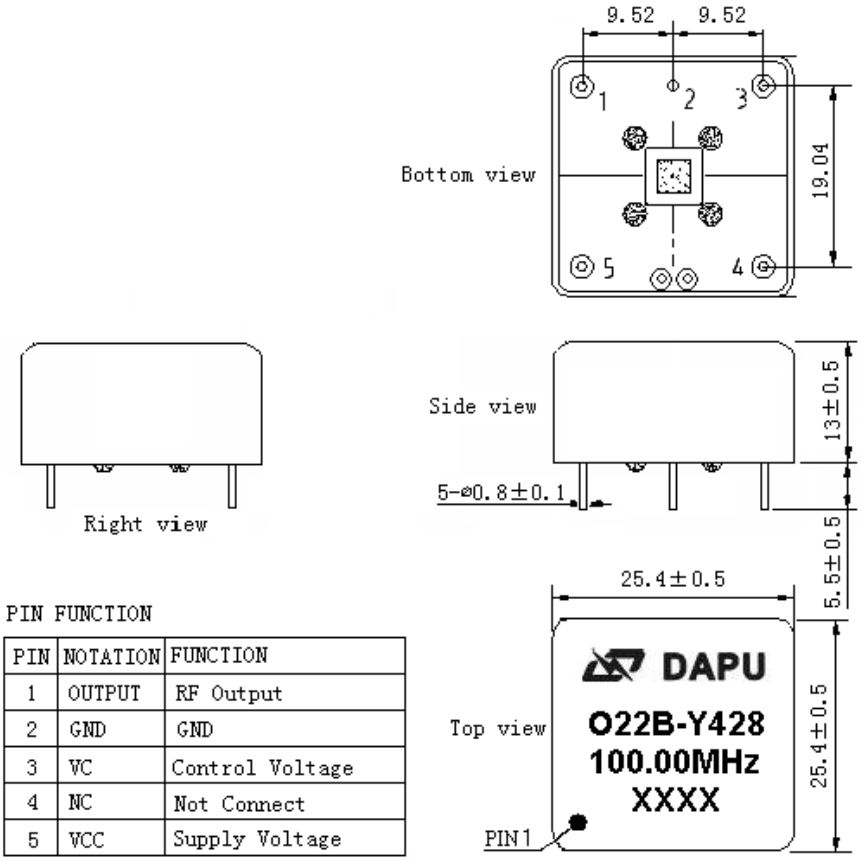
Phase Noise	Phase Noise @25℃		-140	-130	dBc/Hz	100Hz
			-165	-160		1KHz
			-170	-165		10KHz
			-170	-165		100KHz
Environmental Conditions	Operable Temperature	-40		+70	℃	
	Storage Temperature	-55		+85	℃	
	ESD Level	Human Body Model, class2: 2000V to 4000V; ANSI/ESDA/JEDEC JS-001-2010.				
		Machine Model, 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.				
Full Package Storage	Relative humidity (%)	20%～70%				
	Temperature (℃)	-10~35℃				

2. Mechanical Structure (mm)



PIN FUNCTION

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

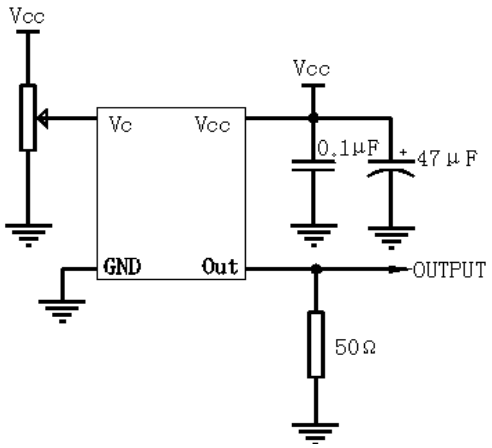
Note1: Tolerance ±0.20mm without mark

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

Note3: Referential Weight 30g

Note4: NC is not connect

3. Test Circuit



Note: Has a built-in bias voltage in voltage controlled .If needn't calibrate the OCXO's frequency, please don't connect the reference voltage and the voltage control pin.

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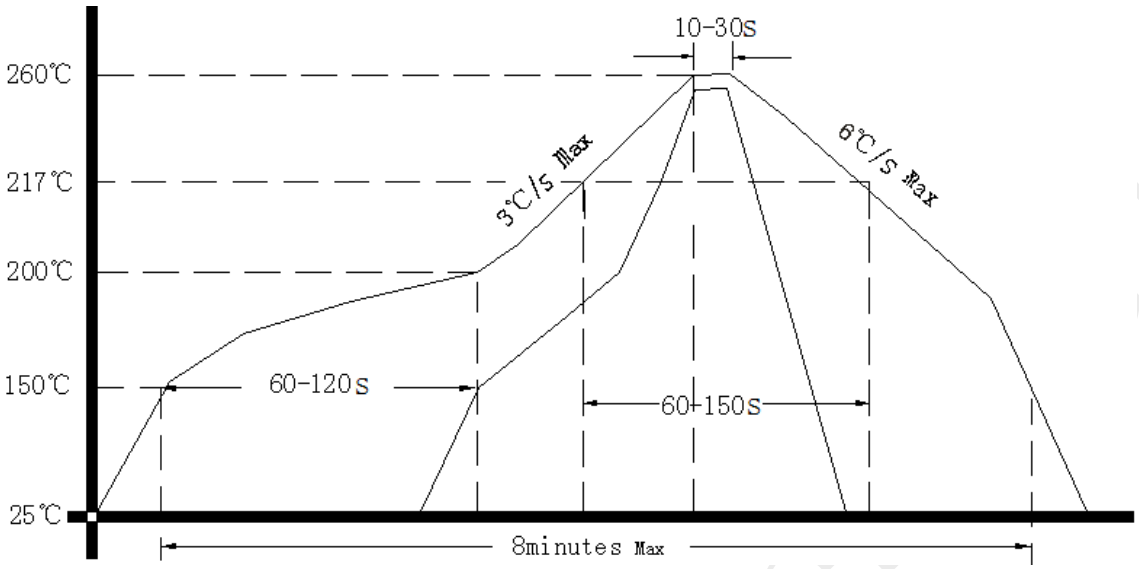
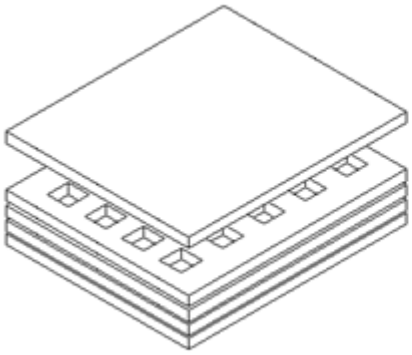
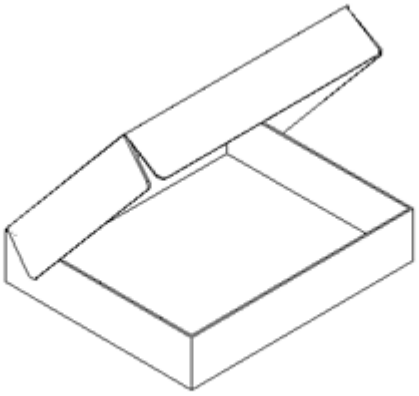
4. Reflow Soldering Curve (RoHS)



5. Package(mm)



Buffer material



Cardboard
Max 20pcs. circulator