Customer Code : _____

DATASHEET

DAPU P/N: **O23B-P429-100.00MHz**

Customer P/N: _____

DAPU			Customer Approval
Drew	Audited	Approved	
Amway.wei	Tony · Wang	James.Liu	
Date: 2018.01.24			Stamp, please! Thanks!

Guangdong Dapu Telecom Technology Co.,Ltd

Bldg13-16,.N.Ind.Zone,SSL Industry Park, Dongguan City, Guangdong Province, China

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Table of amendment

Version	Revision contents	Prepared by	Revised date
1.0	The first issued	Amway	2018.01.24

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1. Electrical Parameters

MODEL： O23B-P429-100.00MHz						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency		100.00		MHz	
	Output Waveform		Sine Wave			
	Level	5		7	dBm	
	Harmonics Suppression			-40	dBc	
	Spurious Suppression			-80	dBc	
	Load		50		Ω	
Frequency Stabilities	Frequency Tolerance vs. Operating Temperature Range	-0.01		+0.01	$\times 10^{-6}$	T_A varied from-20℃ 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, S=0.
	Accuracy	-0.1		+0.1	$\times 10^{-6}$	Measurement referenced to frequency observed with TA=25℃ ±2℃,$O_{load=}$50Ω,within 30 days after ex-work, S=0.
	Frequency Tolerance vs. Load	-0.02		+0.02	$\times 10^{-6}$	5% Load Change Measurement referenced to frequency observed with T_A=25℃, V_{cc}=5.0V, O_{load}=50Ω. S=0.
	Frequency Tolerance vs. Supply Voltage	-0.01		+0.01	$\times 10^{-6}$	measurement referenced to frequency observed T_A=25℃, V_{cc} varied from 4.75V to 5.25V, and O_{Load}=50Ω,S=0.
	Short-Term Stability: Allan Variance			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, S=0.
	Retrace	-0.1		+0.1	$\times 10^{-6}$	15 min power on, S=0
	Daily Fluctuation	-0.05		+0.05	$\times 10^{-6}$	V_{cc}, T_A constant measurement referenced to frequency observed with T_A=25℃, V_{cc}=5.0V, and after 30 days of operation, S=0
	Aging Tolerance Per Day	-2.0		+2.0	$\times 10^{-9}$	
	Aging Tolerance Per Year	-0.1		+0.1	$\times 10^{-6}$	

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Power Supply	Supply Voltage	4.75	5.0	5.25	V	
	Steady Consumption			500	mA	@25℃ ±2℃
	Warm up current			1200	mA	@25℃ ±2℃
	Warm-Up Time			15	min	@25℃within $\pm 0.1\times10^{-6}$ of final frequency with reference after 1 hour on, S=0
Phase Noise S=0	Phase Noise			-105	dBc/Hz	10Hz
				-135		100Hz
				-158		1KHz
				-165		10KHz
				-170		100KHz
Environmental Conditions	Operable Temperature	-20		+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℃				

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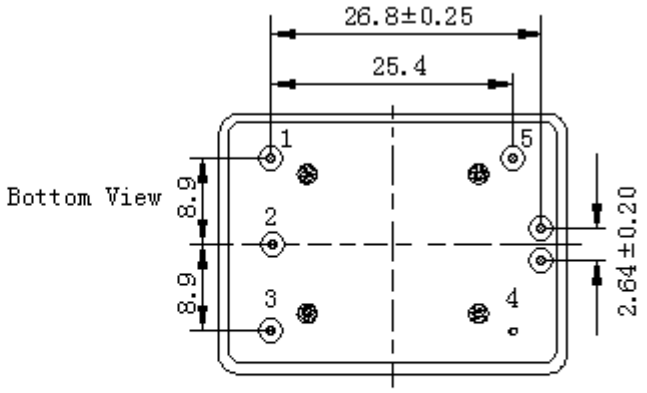
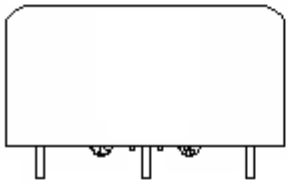
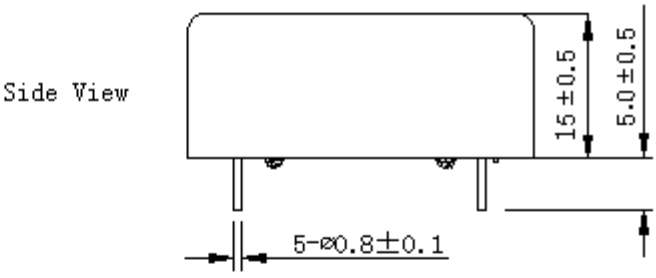
2. Mechanical Structure(mm)

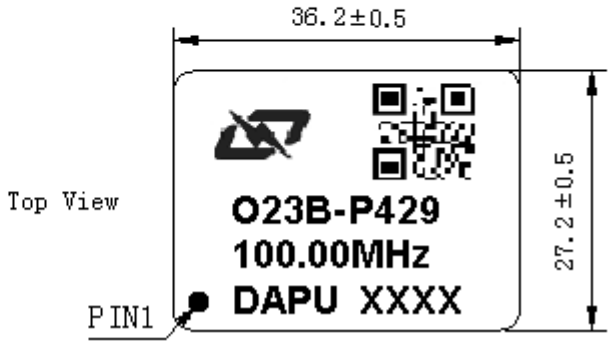






PIN FUNCTION

PIN	NOTATION
1	VCC
2	External reference signal: S S=0(low),no external 10MHz input S=1(high),external 10MHz input
3	10MHz input
4	GND
5	OUTPUT



Note1: Tolerance ±0.2mm without mark

Note2: Referential weight 20.7g

Note3: The first two xx representative: week
After two xx representative: year

Note4: NC is not connect

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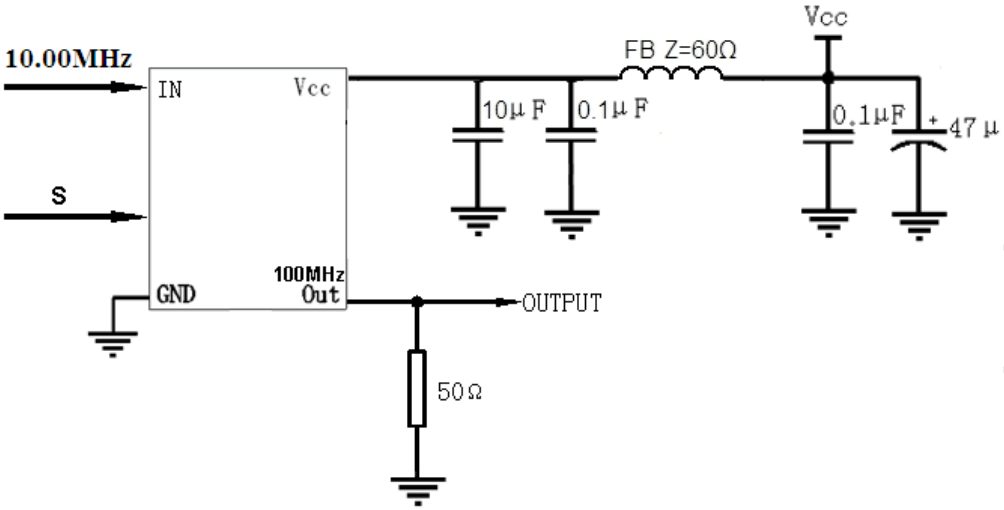
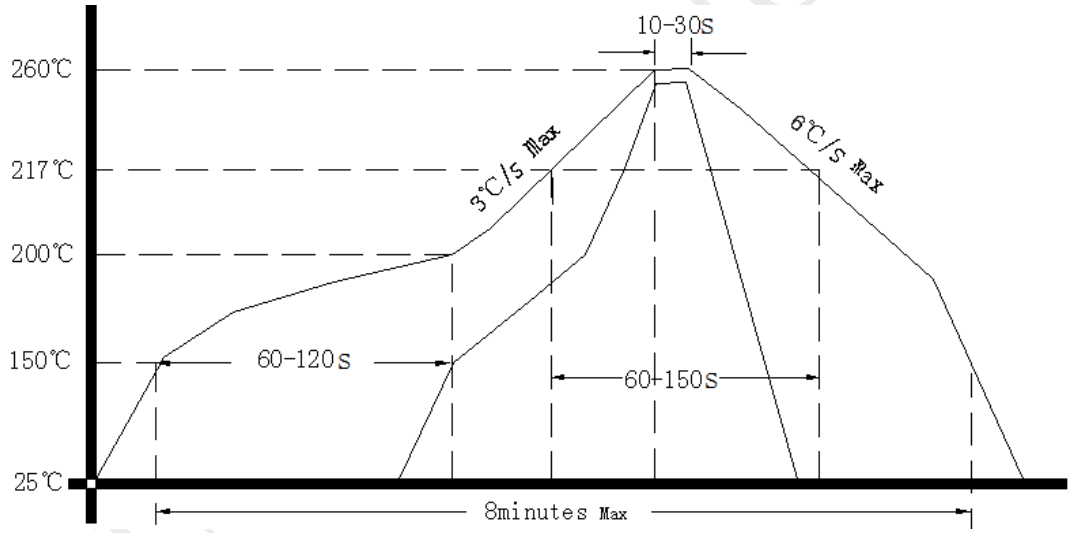
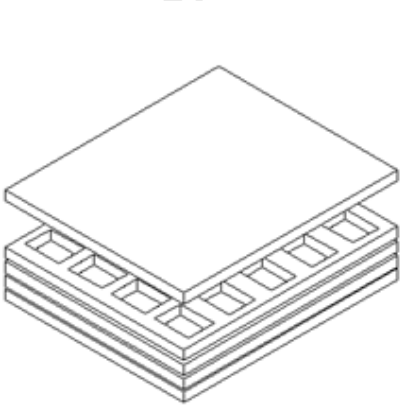
3. Test circuit



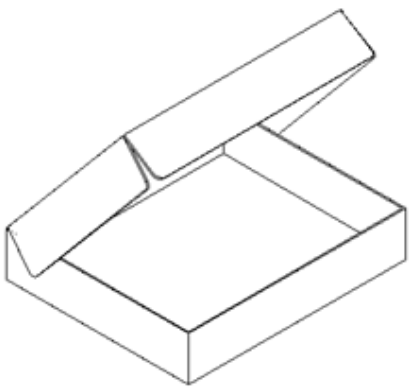
4. Reflow Soldering Curve (RoHS)



5. Package（mm）



Buffer material



Cardboard
Max 20pcs. circulator