

Customer Code : \_\_\_\_\_

# DATASHEET

DAPU P/N: DP8Y1000001

Plot			The Label
Drew	Audited	Approved	Stamp, please! Thanks!
Date: 2017.07.20			

## Guangdong Dapu Telecom Technology Co.,Ltd

Bldg16,.N.Ind.Zone,SSL Industry Park, Dongguan City, Guangdong Province, China

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



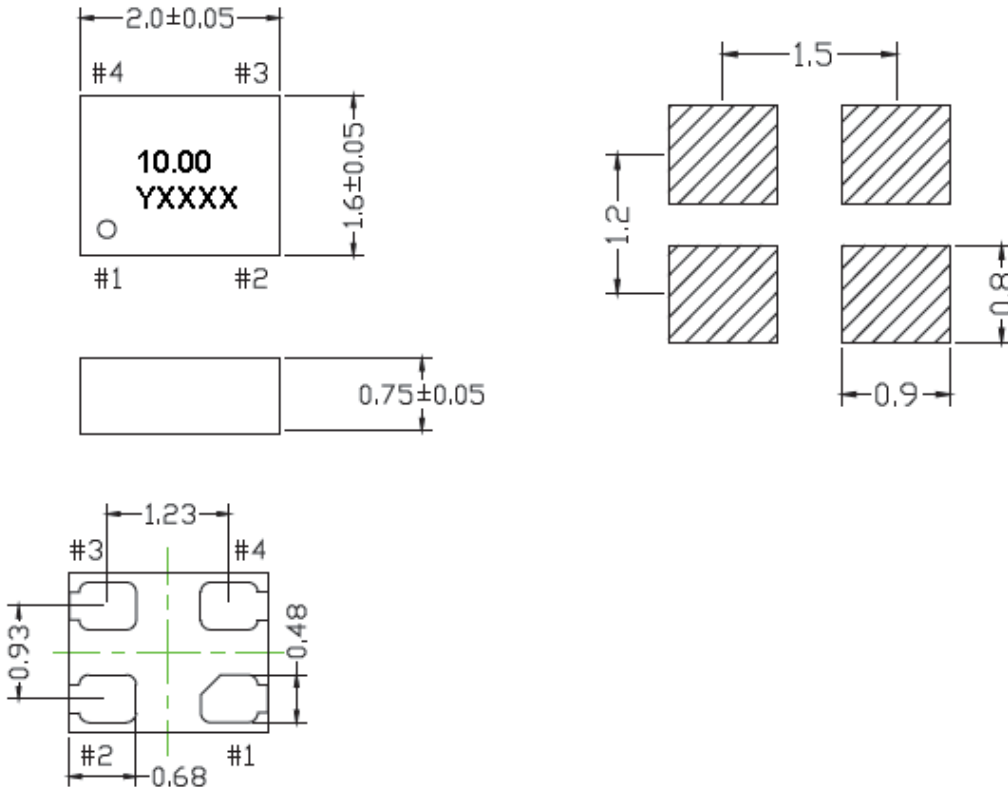
## 1、Electrical Parameters

MODEL: DP8Y1000001							
No.	Parameters	SYM.	Electrical Spec.				Notes
			Min.	Typ.	Max.	Units	
1	Nominal Frequency	FL	10.00			MHz	
2	Output Waveform		LVCMOS				
3	Vdd		-0.5		4	V	
4	Supply Voltage		2.97	3.3	3.63	V	
5	Frequency Stability	F-stab	-25		+25	$\times 10^{-6}$	Inclusive of initial tolerance at 25°C, 1 <sup>st</sup> year aging at 25 °C, and variations Over operating temperature, rated power supply voltage, and load .
6	Operating Temperature	T-opr	-40	~	+85	°C	
7	Storage Temperature	T-stg	-65	~	+150	°C	
8	Current Consumption	I <sub>dd</sub>	-	3.8	4.5	mA	
9	OE Disable Current	I <sub>OD</sub>			4.2	mA	
10	Standby Current	I <sub>std</sub>		2.1	4.3	μA	
11	Rise/Full Time	Tr、Tf		1	2	ns	20%~80%
12	Duty Cycle	DC	45		55	%	
13	Output Voltage High	VOH	90%	-		Vdd	
14	Output Voltage Low	VOL		-	10%	Vdd	
15	Input Voltage High	VIH	70%	-	-	Vdd	Pin 1
16	Input Voltage Low	VIL	-	-	30%	Vdd	Pin 1
17	Input Pull-up Impedence	Z <sub>in</sub>	50	87	150	KΩ	Pin 1, OE logic high or logic low, or ST logic high
18	Start up Time	T <sub>start</sub>	-		5	ms	Measured from the time Vdd reaches its rated minimum value
19	Enable/Disable Time	T <sub>oe</sub>	-	-	130	ns	
20	Resume Time	T <sub>resume</sub>			5	ms	In Standby mode, measured from the time ST pin crosses 50% threshold.
21	RMS Period Jitter	T <sub>jitt</sub>	-	1.8	3	ps	
22	Peak to peak Period Jitter	T <sub>pk</sub>		12	25	ps	
23	Phase Jitter(radom)	T <sub>phj</sub>		0.5	0.9	ps	Integration bandwidth =900kHz to 7.5MHz
				1.3	2	ps	Integration bandwidth =12kHz to 20MHz



24	Mechanical Shock	MIL-STD-883F,Method 2002
	Mechanical Vibration	MIL-STD-883F,Method 2007
	Temperature Cycle	JESD22, Method A104
	Solderability	MIL-STD-883F,Method 2003
	Moisture Sensitivity Level	MSL1 @260°C

## 2、Mechanical Structure(mm)



### Pin Description

Pin	Symbol		Functionality
1	NC	No Connect	Any voltage between 0 and Vdd or Open <sup>[1]</sup> : Specified frequency output. Pin 1 has no function.
2	GND	Power	Electrical ground
3	OUT	Output	Oscillator output
4	VDD	Power	Power supply voltage <sup>[2]</sup>

**Note1:** Tolerance  $\pm 0.2$ mm without mark

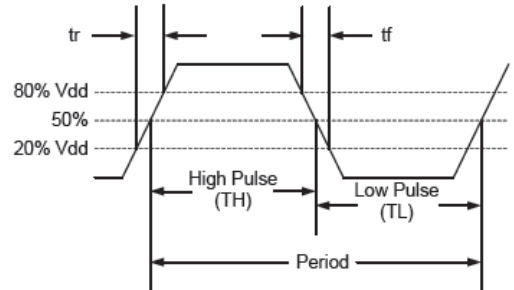
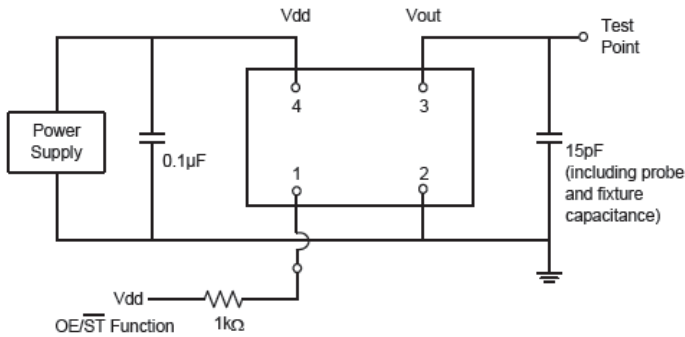
**Note2:** Referential weight 0.2g

**Note3:** Y denotes manufacturing origin and XXXX denotes manufacturing lot number. The value of "Y" will depend on the assembly location of the device

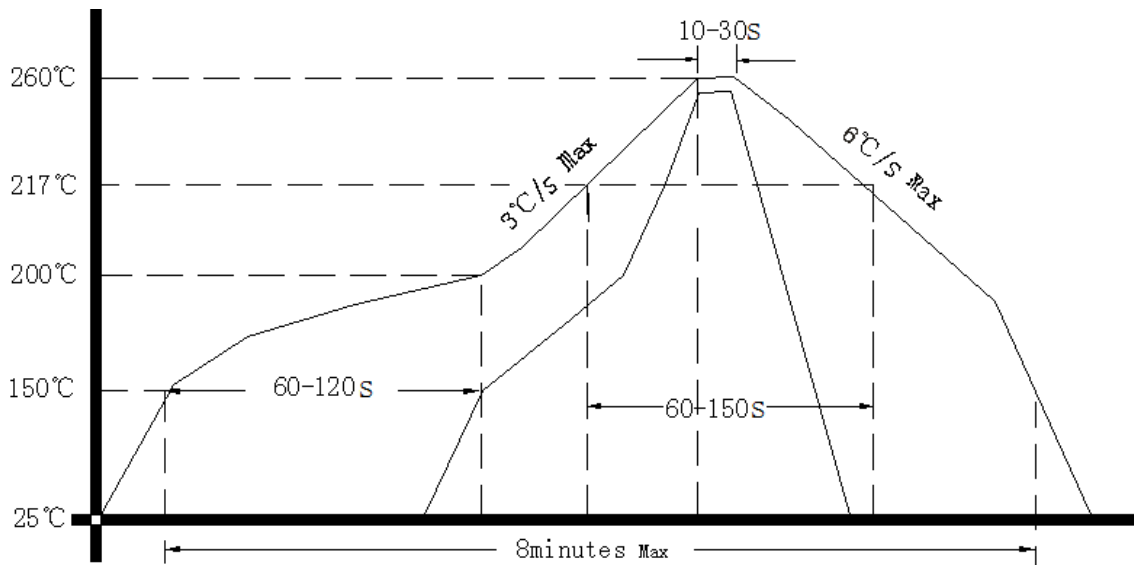
**Note4:** A capacitor of value  $0.1\mu$  F or higher between Vdd and GND is required.



### 3、 Test Circuit and Waveform



### 4、 Reflow Soldering Curve (RoHS)



### 5、 Package: Tape & Reel (mm)

