

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

# DATASHEET

DAPU P/N: DP7C2000002

Y53NNM20000

DAPU			Customer Approval
Drew	Audited	Approved	Stamp, please! Thanks!
Date: 2016.04.06			

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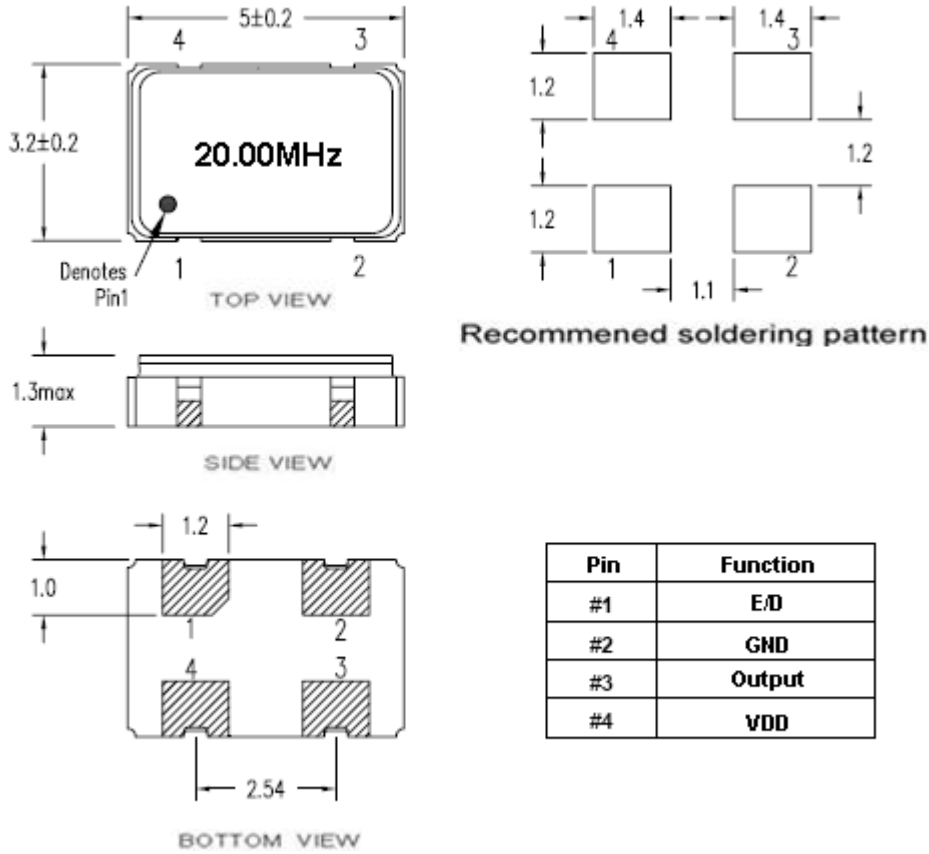


## 1、Electrical Parameters

MODEL: DP7C2000002							
No.	Parameters	SYM.	Electrical Spec.				Notes
			Min.	Typ.	Max.	Units	
1	Nominal Frequency	FL	20.00			MHz	
2	Output Waveform	-	CMOS				
3	Oscillation mode	-	Fundamental				
4	Frequency Stability	-	-30		+30	$\times 10^{-6}$	Incl. 25 °C tolerance, tolerance over operating temperature range, input voltage change, load change, 1 year aging
5	Operating Temperature	Topr	-40	~	+85	°C	
6	Storage Temperature	Tstg	-55	~	+125	°C	
7	Supply Voltage	VDD	3.3 ± 10%			V	
8	Input Current	Icc	-	-	20	mA	
9	Standby current	-	-	-	10	μ A	
10	Output Symmetry	-	50 ± 10%				
11	Start-up Time	-	-	-	3	ms	
12	Output Load	CL	15			pF	
13	Aging	-	-3	-	+3	$\times 10^{-6}$ /year	1st. Year at 25°C
14	Output Voltage High	VoH	0.9VDD	-	-	V	
15	Output Voltage Low	Vol	-	-	0.1VDD	V	
16	Rise Time	Tr	-	-	5	ns	
17	Fall Time	Tf	-	-	5	ns	
18	Phase Jitter	-	-	-	1	ps	RMS(12KHz~20MHz)
19	Output State Control		Enable/disable				
20	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.					
21	Moisture Sensitivity Level	Level 2.					
22	Vibration	Test Condition: 0.75mm ;acceleration:10g;10Hz~2000Hz, one cycle per 30 min, test 2 hour. (3 times for each 3 directions X ,Y , Z) .IEC 68-2-06 Test Fc.					
23	Shock	100g; 6ms; half sine wave (3 times for each 3 directions X ,Y , Z ),IEC 68-2-27 Test Ea/Severity 50A.					
24	Full Package Storage	Relative humidity (%)			20%~70%		
		Temperature (°C)			-10~35°C		



## 2、Mechanical Structure(mm)



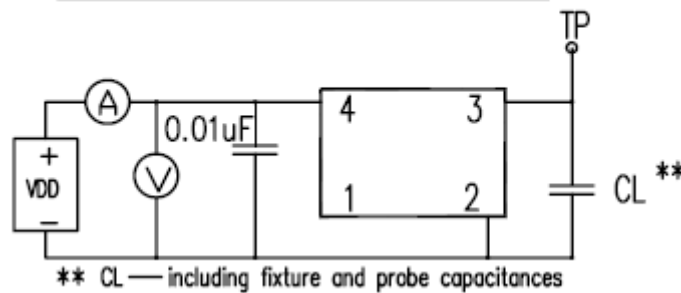
**Note1:** Tolerance ±0.2mm without mark

**Note2:** Enable/disable functional description

When pin1 goes high ( $\geq 0.7V_{DD}$ ) or open , the oscillator in normal operation and has output in frequency .When pin1 goes low ( $\leq 0.3V_{DD}$ ) , the oscillator stops and the oscillator output (pin3) becomes high impedance.

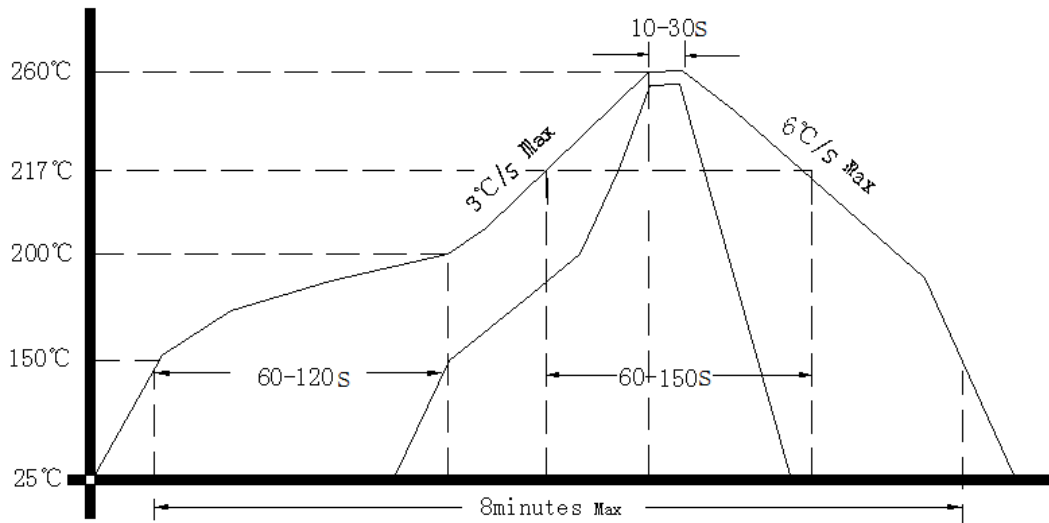
## 3、Test circuit

### CMOS TEST CIRCUIT





#### 4、 Reflow Soldering Curve (RoHS)



#### 5、 Package: Tape & Reel (mm)

