Customer Code:_____

DATASHEET

DAPU P/N: **DPA5325M0000ECB0**

DAPU			Customer Approval
Drew	Audited	Approved	
Jack	David	William	
Date: 2023.04.10			Stamp, please! Thanks!

Guangdong Dapu Telecom Technology Co.,Ltd

Building 5, No.24, Industrial East Road, Songshanhu Park, Dongguan, Guangdong, P.R. China

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

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1、 Electrical Parameters

MODEL： DPA5325M0000ECB0							
No.	Parameters	SYM.	Electrical Spec.				Notes
			Min.	Typ.	Max.	Units	
1	Nominal Frequency	FL		25.00		MHz	
2	Oscillation Mode	-		Fundamental			
3	Frequency Stability	-	-25		+ 25	$\times 10^{-6}$	Includes frequency tolerance@25℃, frequency stability VS.operating temperature range
4	Operating Temperature	Topr	-40	~	+ 85	℃	
5	Storage Temperature	Tstg	-55	~	+ 125	℃	
6	Supply Voltage	V_{DD}	1.62		3.63	V	V_{DD}±10%
7	Input Current	Icc			10	mA	
8	Output waveform	-		CMOS			
9	Output Load	CL		15		pF	
10	Output Voltage High	V_{OH}	90%			V_{DD}	
11	Output Voltage Low	V_{OL}			10%	V_{DD}	
12	Rise Time	Tr			5	ns	10%-90%V_{DD} Level
13	Fall Time	T_f			5	ns	90%-10%V_{DD} Level
14	Aging	-	-3		+ 3	$\times 10^{-6}$	First Year at 25℃
15	Tri-State Output Enable	-	80%			V_{DD}	Pin 1, OE
16	Tri-State Output Disable	-			20%	V_{DD}	Pin 1, OE
17	Duty Cycle	-	40	~	60	%	
18	Start-Up Time	Tstart			3	ms	Measured from the time V_{DD} reaches its rated minimum value

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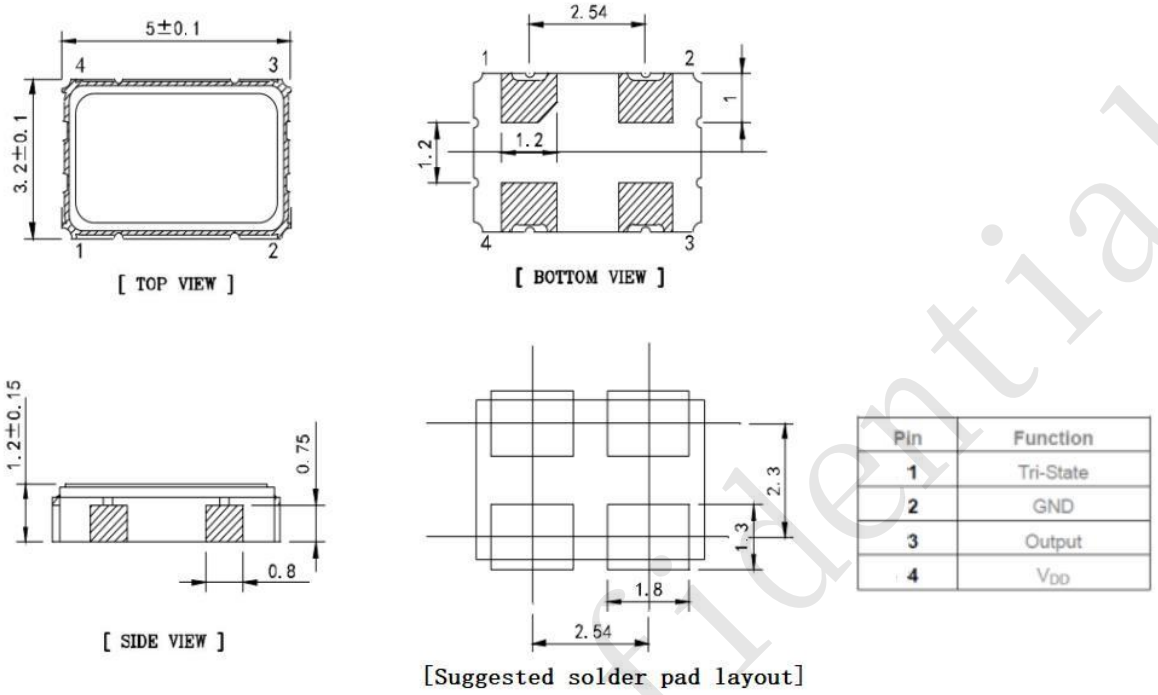
2、 Mechanical Structure

2.1 Dimensions



Pin	Function
1	Tri-State
2	GND
3	Output
4	V_{DD}

Unit: mm

2.2 Marking

-------- DAPU LOGO

25.000 -------- Frequency

XXYY -------- Manufactured day: XX YY
Year Week

● -------- Pin 1

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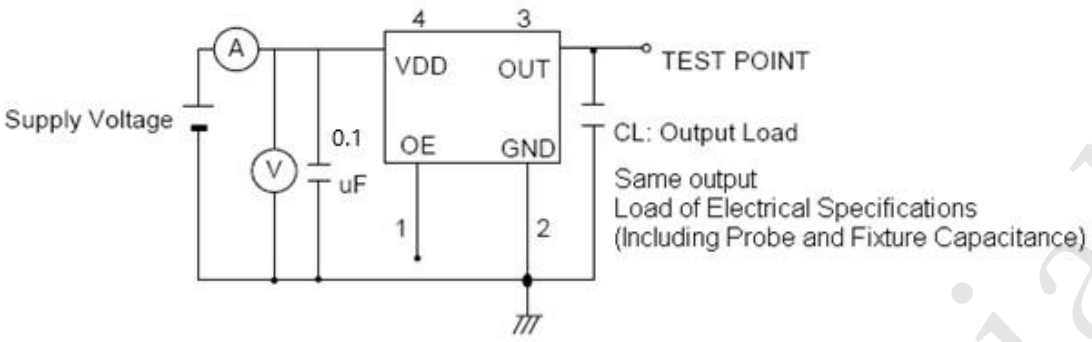
3、Test Circuit

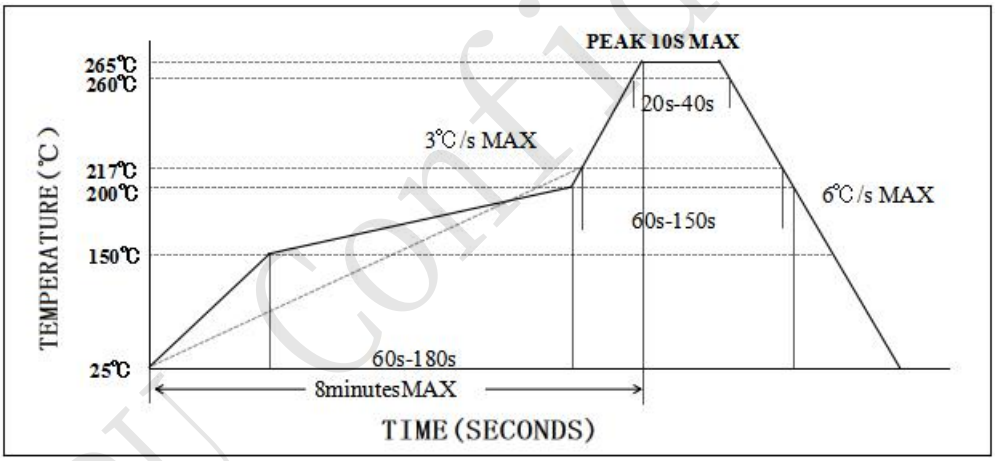


Control input (output enable/disable)

Logic 1 or open on pad 1: Oscillator output

Logic 0 on pad 1 : Disable output to high impedance

4、Reflow Soldering Curve (RoHS)



5、Electro-static Discharges

HBM: Class3A

MM: ClassC

CDM: ClassⅣ

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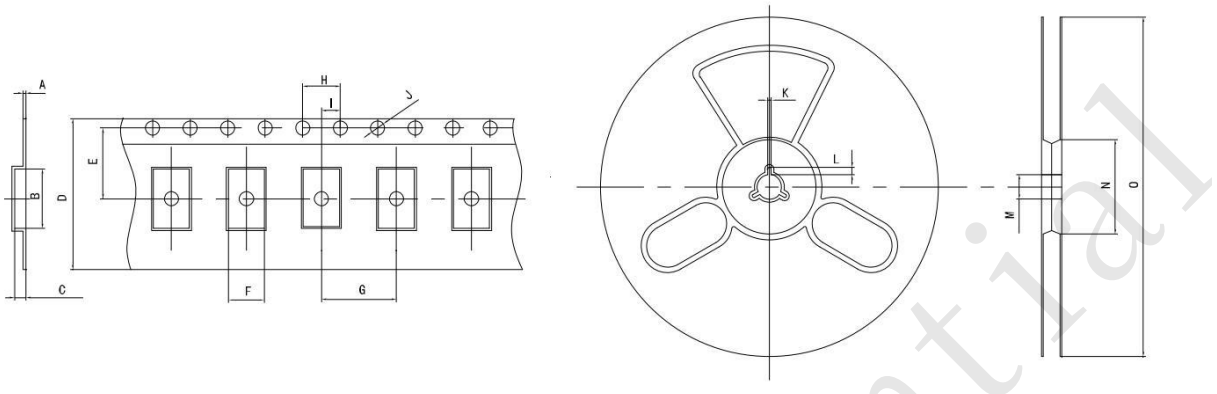
6、Package: Tape & Reel (mm)



TEYE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
5×3.2 SMD	0.30	7.50	1.45	12.00	5.50	3.70	8.00	4.00	2.00	1.50	2.00	4.00	13.00	60.00	180.00

7、Reliability Test Specification

NO.	Test Items	Test Standard	Test Condition	Specifications
1	Drop test	GB/T2423.8	Drop from 150cm height on 3cm hard wooden board for 3 times	Electrical performance meets specification requirements
2	Mechanical shock	GB/T2423.5	Peak: 100g; Waveform: Half-sine; Velocity Change: 1000m/s^2 ; Duration: 0.5ms; 3 times/direction, Direction: +X, -X, +Y, -Y, +Z, -Z.	
3	Vibration	GB/T2423.10	Frequency: 10~2000Hz; Vibaration:20min, 1.52mm; Direction: X, Y, Z; Duration: 2 hours/direction.	
4	Solderability	IEC60068-2-58	Soldering temperature:245℃±5℃ Immersion time:5 seconds ± 0.5 seconds Flux:Rosin Resin Methanol Solvent (1 : 4)	
5	Resistance to soldering heat	IEC60068-2-58	Reflow soldering: Solder temperature 260±5℃, Immersion time:10±1 S	
6	High temperature storage	GB/T2423.2	Temperature: 125℃±2℃; Duration: 500±12hours;	
7	Low	GB/T2423.1	Temperature: -40℃±2℃;	

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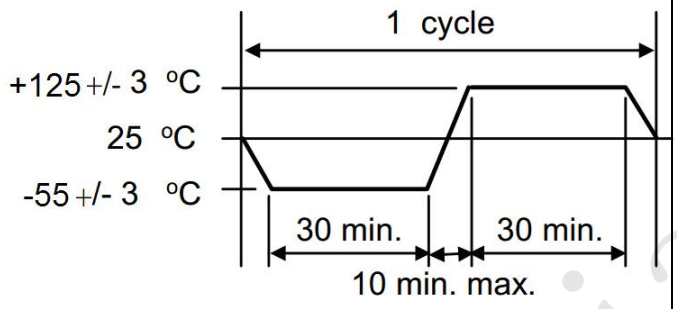
	temperature storage		Duration: 500±12hours;	
8	Temperature Shock	GB/T2423.22	Do 10 cycles at the following temperature 	
9	High temperature high humidity storage	GB/T2423.3	Temperature: 85℃±3℃; Humidity: 85%; Duration: 500hours;	