Customer Code: _____

DATASHEET

DAPU P/N: DPA3250M0000EH0GSA0

DAPU			Customer Approval
Drew	Audited	Approved	
Jieshu ZHENG	Jianhua LIN	Gangtao FENG	
Date： 2024/11/6			Stamp, please! Thanks!

Guangdong Dapu Telecom Technology Co.,Ltd

Bldg 5, SSL Modern Enterprise Accelerator Zone, Dongguan City, Guangdong Province, PRC China
TEL：0086-0769-88010888 FAX：0086-0769-81800098

Bldg 5, SSL Modern Enterprise
Accelerator Zone, Dongguan City,
Guangdong Province, PRC China
TEL:0086-0769-88010888
FAX:0086-0769-81800098

Table of amendment

Version	Revision contents	Prepared by	Revised date
1.0	The first issued	Jieshu ZHENG	2024/11/6

Bldg 5, SSL Modern Enterprise
Accelerator Zone, Dongguan City,
Guangdong Province, PRC China
TEL:0086-0769-88010888
FAX:0086-0769-81800098

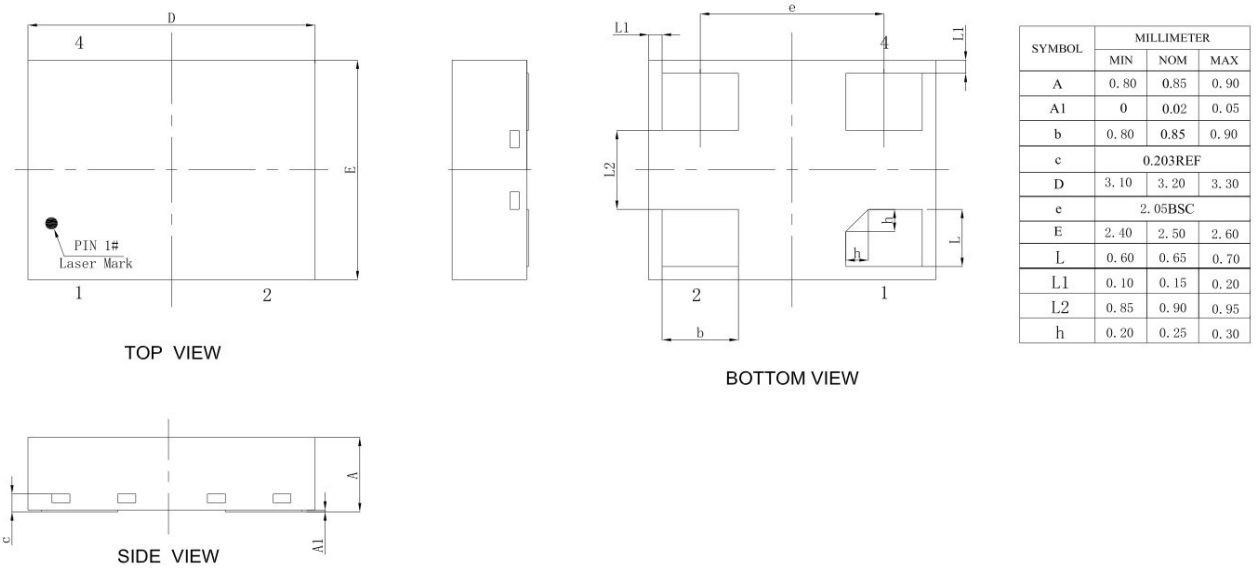
1、Electrical Parameter

MODEL：		DPA3250M0000EH0GSA0					
No.	**Parameters**	**SYM.**	**Electrical Spec.**				**Notes**
			Min.	**Typ.**	**Max.**	**Units**	
1	Nominal Frequency	F_L		50.0000		MHz	
2	Frequency Tolerance	F_T	-15		15	ppm	Inclusive of initial frequency tolerance at 25°C, 10-year aging at 25°C, and variations over supply voltage, load and humidity after soldering-reflow shift settles.
3	Frequency Stability	-	-35		35	ppm	-40℃~85℃ (Reference 25℃)
4	Operating Temperature	Topr	-40		85	℃	
5	Storage Temperature	Tstg	-55		105	℃	
6	Supply Voltage	V_{DD}	1.71		3.63	V	
7	Input Current	Icc		40	55	mA	CMOS (C_L=15 pF)
8	Output Waveform	-		CMOS		-	
9	Output Load	C_L		15		pF	
10	Output Voltage High	V_{OH}	0.83×V_{DD}			V	I_{OH} = 8/6/4 mA for 3.3/2.5/1.8V V_{DD}
11	Output Voltage Low	V_{OL}			0.17×V_{DD}	V	I_{OL} = 8/6/4 mA for 3.3/2.5/1.8V V_{DD}
12	Rise Time	T_r		0.5	1.5	ns	20% to 80% V_{PP}
13	Fall Time	T_f		0.5	1.5	ns	
14	Input Voltage High	V_{IH}	0.7×V_{DD}			V	Frequency select (FS includes a 50 kΩ pull-up to V_{DD} and a 50 kΩ pull-down to GND.)
15	Input Voltage Low	V_{IL}			0.3×V_{DD}	V	
16	Duty Cycle	DC		45~55		%	
17	Powerup Time	T_{OSC}			4	ms	Time from 0.9×V_{DD} until output frequency (F_{CLK}) within spec
18	Phase Jitter (RMS)	Φ_J		350		fs	12kHz - 20MHz
19	Solder Temperature	T_{PEAK}		260		℃	The device is compliant with JEDEC J-STD-020.
	Solder Time at T_{PEAK}	T_P		20~40		sec	
20	Moisture Sensitivity Level 2						

Bldg 5, SSL Modern Enterprise
Accelerator Zone, Dongguan City,
Guangdong Province, PRC China
TEL:0086-0769-88010888
FAX:0086-0769-81800098

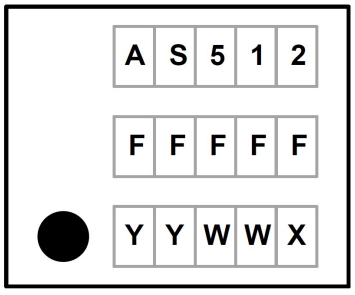
2、Mechanical Structure

2.1 Dimensions



SYMBOL	MILLIMETER		
	MIN	NOM	MAX
A	0.80	0.85	0.90
A1	0	0.02	0.05
b	0.80	0.85	0.90
c	0.203REF		
D	3.10	3.20	3.30
e	2.05BSC		
E	2.40	2.50	2.60
L	0.60	0.65	0.70
L1	0.10	0.15	0.20
L2	0.85	0.90	0.95
h	0.20	0.25	0.30

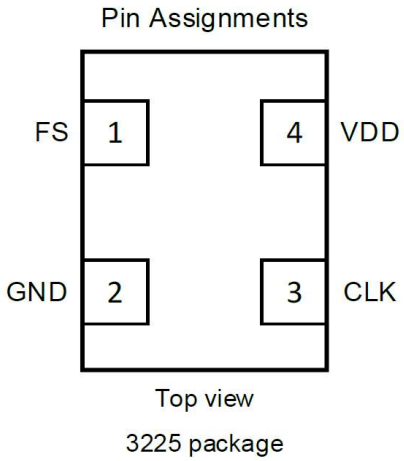
2.2 Marking



Line	Position	Description
1	1-5	Device Name
2	1-5	Unique 5-digit Device Configuration Number
3	Position 1	Pin 1 orientation mark (dot)
	Position 2-3	Year (last two digits of the year), to be assigned by assembly site
	Position 4-5	Calendar Work Week number (1-53), to be assigned by assembly site
	Position 6	Assembly site code

Bldg 5, SSL Modern Enterprise
Accelerator Zone, Dongguan City,
Guangdong Province, PRC China
TEL:0086-0769-88010888
FAX:0086-0769-81800098

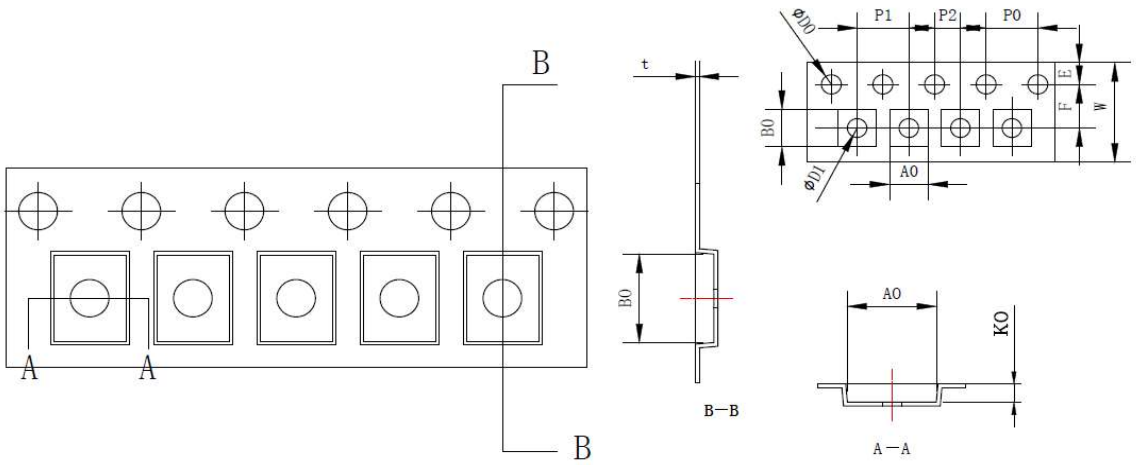
3、Pin description



Pin#	Name	Description
1	FS	Configuration selector
2	GND	Ground
3	CLK	CMOS clock output
4	VDD	Power supply

FS	Description
Low	Driver stopped, output forced to high impedance
High	CLK output active, center spreading enabled: +/-0.5% Spread profile：Hershey-kiss Modulation frequency: 25 kHz

4、Package: Tape & Reel (mm)



W	E	F	D0	D1	P0	P2	10P0	P1	A0	A1	B0	B1	K0	K1	t
8.00 ±0.30	1.75 ±0.10	3.50 ±0.05	1.50 +0.10	1.00 +0.10	4.00 ±0.10	2.00 ±0.10	40.00 ±0.20	4.00 ±0.10	2.80 ±0.10		3.60 ±0.10		1.10 ±0.10		0.30 ±0.05