Customer Code :

DATASHEET

DAPU P/N: DPB32156M250AC0CNB0

Plot			The Label
Drew	Audited	Approved	
Lin Jianhua	David	William	
Date: 2024.03.15			Stamp, please! Thanks!

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1. Electrical characteristic

MODEL： DPB32156M250AC0CNB0

No.	Parameters	SYM.	Electrical Spec.				Notes
			Min.	Typ.	Max.	Units	
1	Nominal Frequency	FL	156.25			MHz	
2	Oscillation Mode	-	3rd			-	
3	Total Stability	-	-25		25	×10-6	Includes initial frequency tolerance, frequency temperature coefficient, frequency voltage coefficient, Output load, 5 year aging.
4	Operating Temperature	T-opr	-40		85	℃	
5	Storage Temperature	T-stg	-55		125	℃	
6	Supply Voltage	VDD	2.97	3.3	3.63	V	VDD±10%
7	Current Consumption	Idd			70	mA	ST = “H” or Floating, excluding load termination current.
		Idd_ST			10	uA	ST = “L”
8	Output waveform	-	LVPECL				
9	Output load	CL	50			Ω	Terminated to Vdd-2 V
10	Output Voltage High	VOH	Vcc-1.3		Vcc-0.9	V	
11	Output Voltage Low	VOL	Vcc-2.1		Vcc-1.7	V	
12	Rise/Fall Time	Tr/Tf			1	ns	@20%~80%
13	Aging	aging	-10		10	×10-6	At 25 ℃, 10 years
14	Output Enable	-	VDD*0.7			V	For ST Pin
15	Output Disable	-			VDD*0.3	V	For ST Pin
16	Symmetry	SYM	45		55	%	
17	Start up time	T_str			10	ms	Measured from the time VDD reaches its rated minimum value.
18	RMS Jitter	Tpj			150	fs	12kHz to 20MHz

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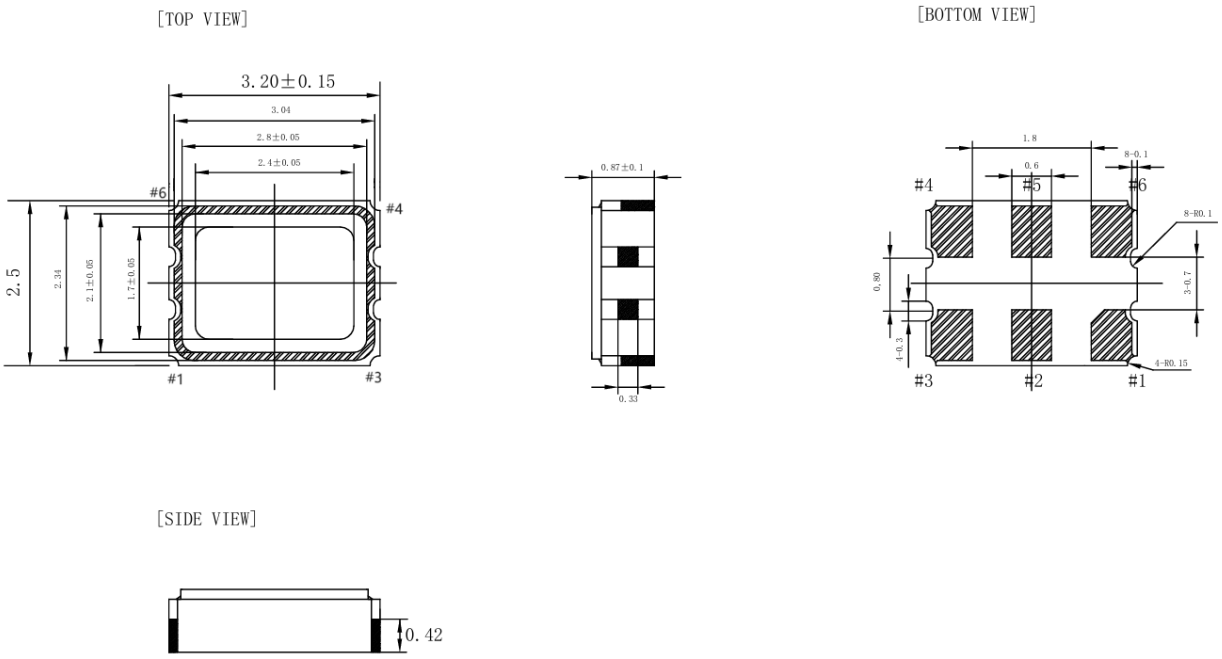
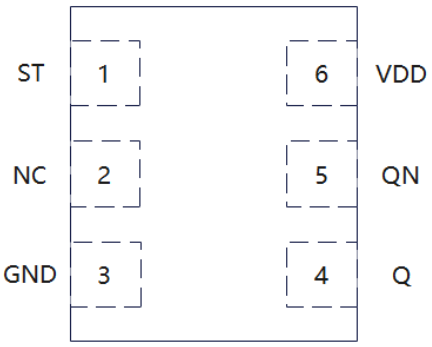
2. Machinal characteristic

2.1 Dimensions



2.2 Pin Description

Pin	No	Function	
1	ST	INPUT	H or Open: Frequency Output
			L: Output is high impendency
2	NC	NA	No Connect: Leave it floating or connect to GND
3	GND	Power	Power Supply Ground
4	Q	Output	Oscillator Output
5	QN	Output	Complementary Oscillator Output
6	VDD	Power	Power Supply VDD



2.3 Marking

NO	Symbol	Function
1		DAPU LOGO
2	156.25	Frequency
3	YYWW	Manufactured day: YY: Year WW: Week
4	●	Pin 1

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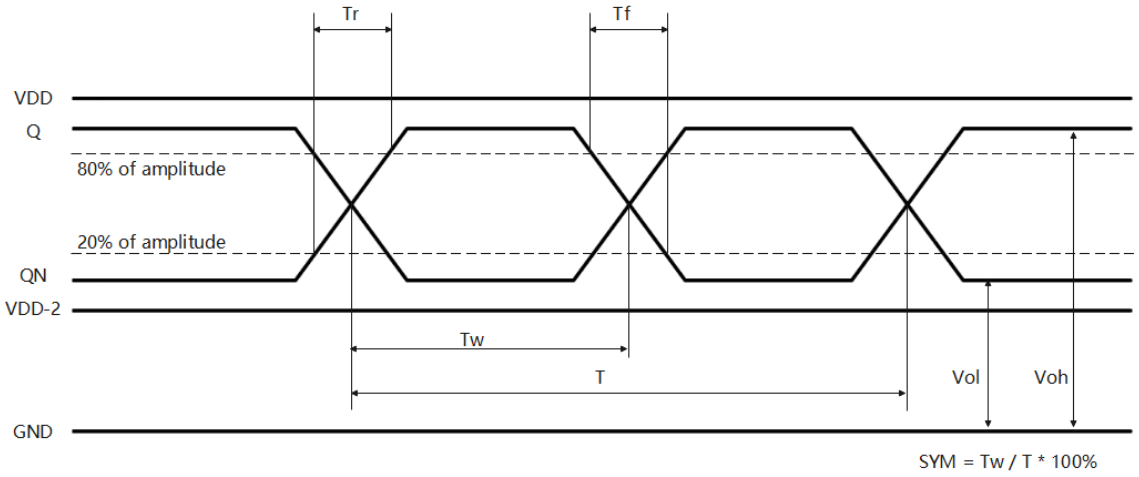
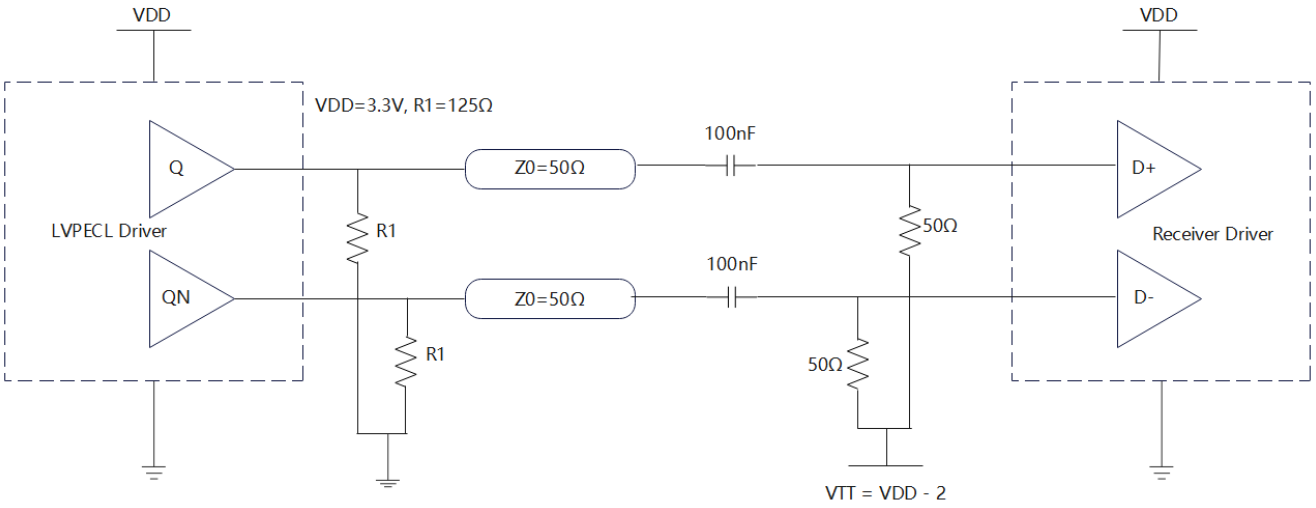
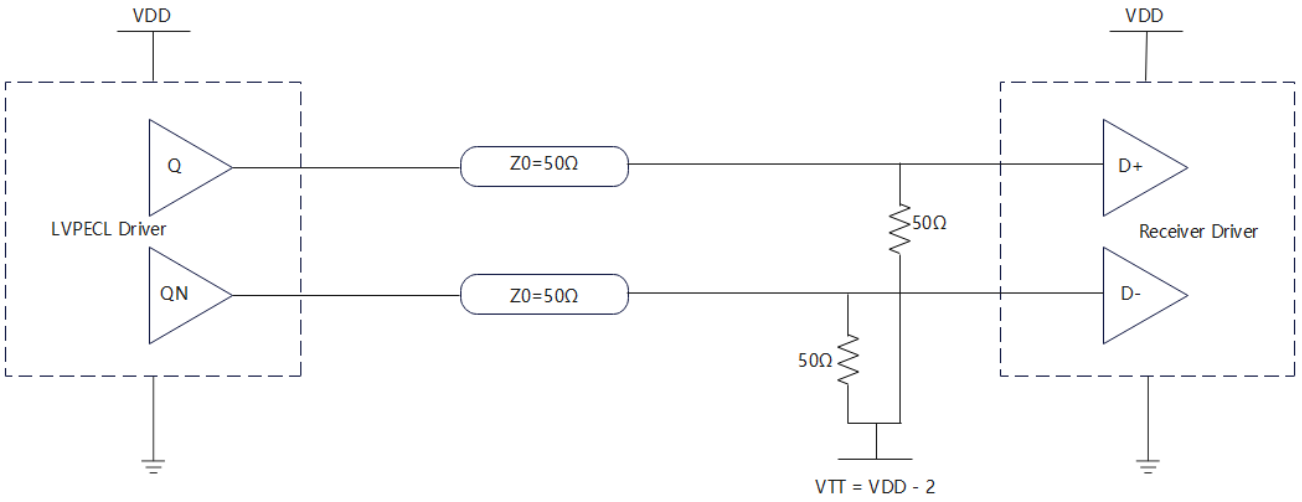
3. Waveform Diagrams



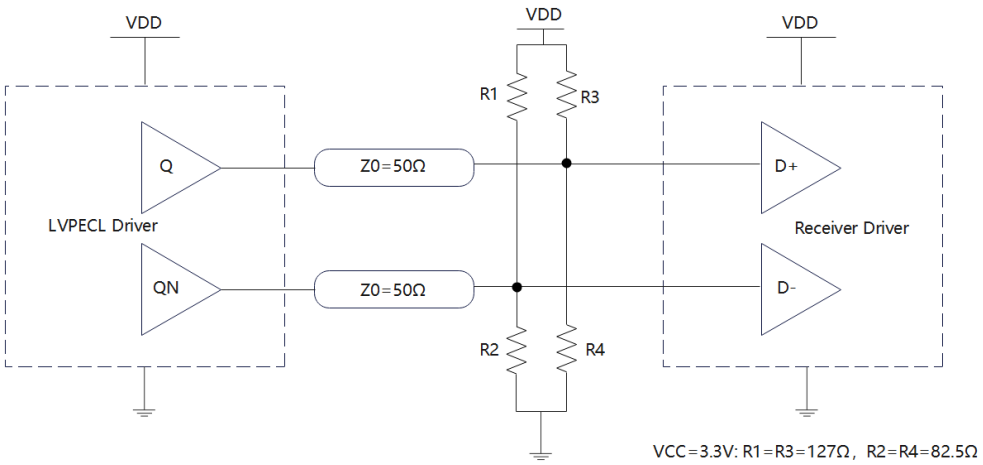
4. Termination Diagrams



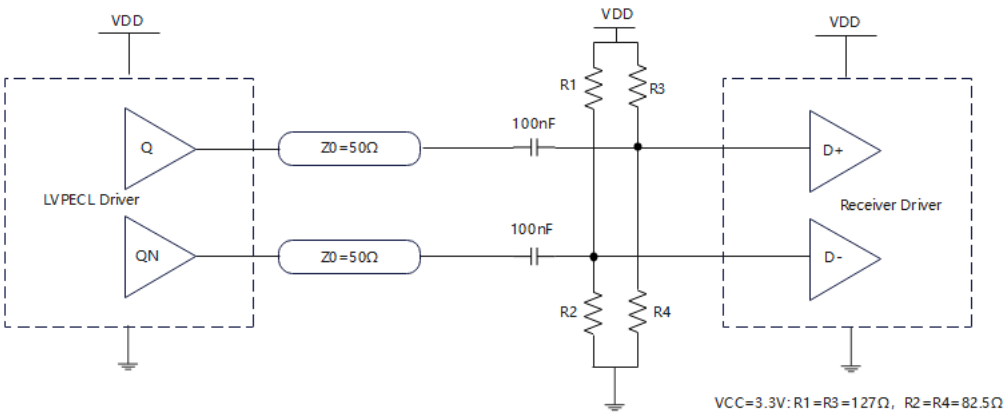
AC-Coupled LVPECL – VTT Bias



DC-Coupled LVPECL – VTT Bias



DC-Coupled LVPECL – Thevenin Termination



AC-Coupled LVPECL – Thevenin Termination

5. ESD

Table 1 ESD

Human Body Model (HBM)	2000V
Machine Model(MM)	200V

Reference Document: MlL-STD-883H

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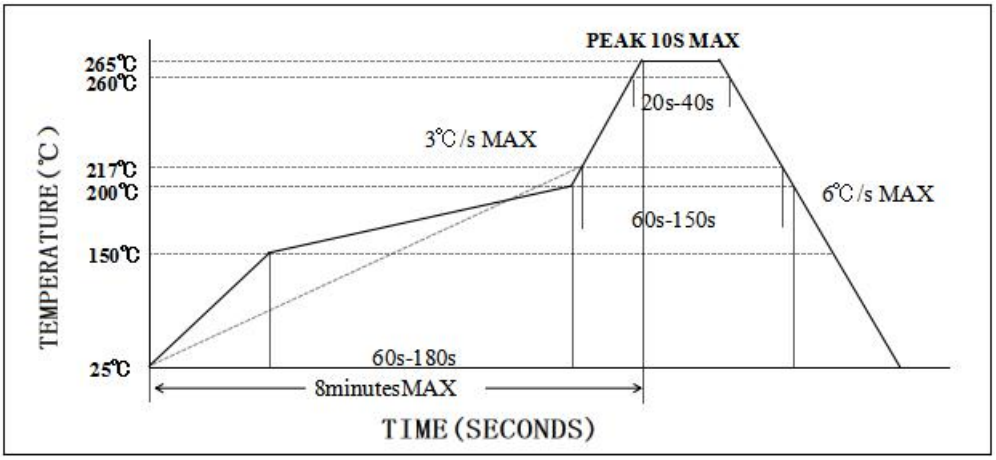
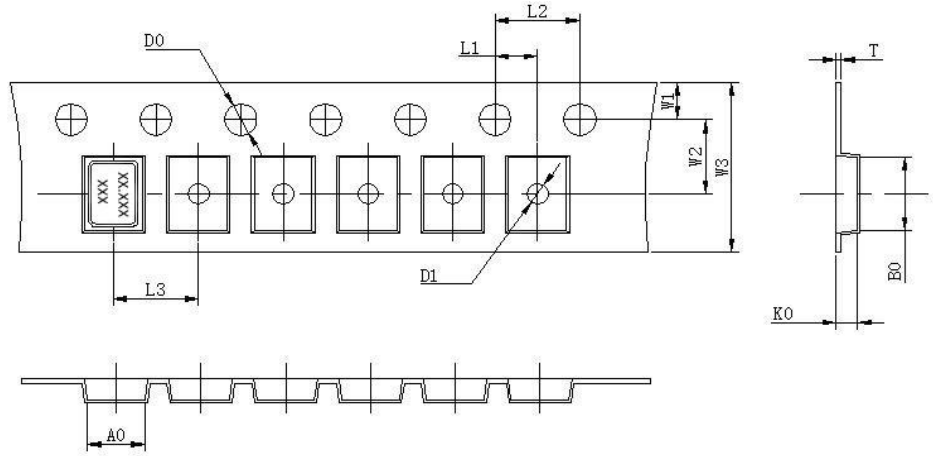
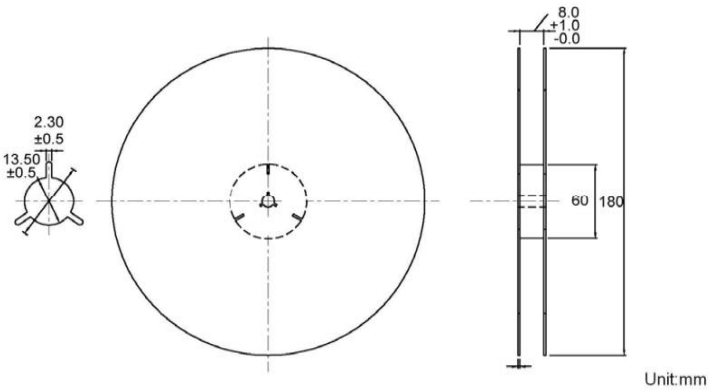
6. Solder Reflow Profile



7. Package Outline Drawing





L1	2.00±0.1
L2	4.00±0.1
L3	4.00±0.1
D0	1.55±0.05
D1	1.20±0.5
W1	1.75±0.1
W2	3.50±0.1
W3	8.00±0.2
A0	2.25±0.1
B0	2.7±0.1
K0	1.45±0.1
T	0.25±0.05

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8. Reversion History

Version	Change Contents	Prepared by	Revised Date
V1.0	First issued	Lin Jianhua	2024.03.15