

Customer Code : _____

DATASHEET

DAPU P/N: **DPBF2000002**

| Plot | | | The Label |
|------------------|---------|----------|------------------------|
| Drew | Audited | Approved | Stamp, please! Thanks! |
| | | | |
| Date: 2018.08.14 | | | |

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



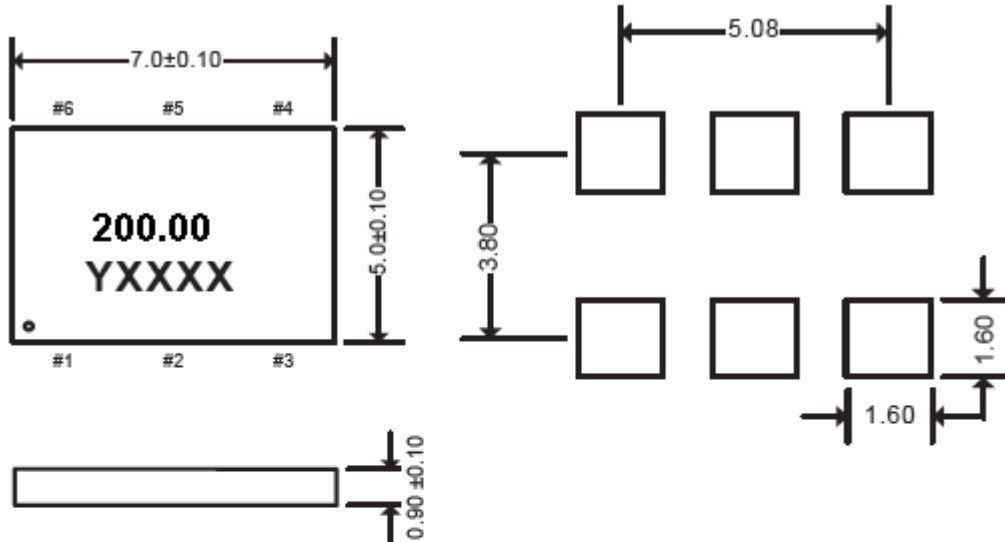
1、Electrical Parameters

| MODEL: DPBF2000002 | | | | | | | |
|--------------------|--------------------------------|----------|------------------|------|-------|------------------|---|
| No. | Parameters | SYM. | Electrical Spec. | | | | Notes |
| | | | Min. | Typ. | Max. | Units | |
| 1 | Nominal Frequency | FL | 200.00 | | | MHz | |
| 2 | Output Waveform | | LVDS | | | | |
| 3 | Vdd | | -0.5 | | 4 | V | |
| 4 | Supply Voltage | | 2.97 | 3.3 | 3.63 | V | |
| 5 | Frequency Stability | F-stab | -20 | | +20 | $\times 10^{-6}$ | Inclusive of Initial tolerance, 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 | Icc | - | 47 | 55 | mA | |
| 9 | OE Disable Supply Current | I_OD | | | 35 | mA | |
| 10 | Standby Current | I_std | | | 100 | μ A | |
| 11 | Rise/Full Time | Tr、 Tf | | 495 | 700 | ps | 20%~80% |
| 12 | First Year Aging | | -2 | | +2 | $\times 10^{-6}$ | @25°C |
| 13 | 10 Year Aging | | -5 | | +5 | $\times 10^{-6}$ | @25°C |
| 14 | Duty Cycle | DC | 45 | | 55 | % | |
| 15 | Differential Output Voltage | VOD | 250 | 350 | 450 | mV | |
| 16 | Output Disable Leakage Current | | - | | 1 | μ A | |
| 17 | Input Voltage High | VIH | 70% | - | - | Vdd | Pin 1 |
| 18 | Input Voltage Low | VIL | - | - | 30% | Vdd | Pin 1 |
| 19 | Input Pull-up Impedence | Z_in | | 100 | 250 | K Ω | Pin 1 |
| 20 | Start up Time | T_start | - | 6 | 10 | ms | Measured from the time Vdd reaches its rated minimum value |
| 21 | OE Enable/Disable Time | T_oe | - | - | 115 | ns | |
| 22 | Resume Time | T_resume | | 6 | 10 | ms | |
| 23 | RMS Period Jitter | T_jitt | - | 1.2 | 1.7 | ps | |
| 24 | VOD Magnitude Change | | | | 50 | mV | |
| 25 | Offset Voltage | VOS | 1.125 | 1.2 | 1.375 | V | |
| 26 | VOS Magnitude Change | | | | 50 | mV | |
| 27 | Phase Jitter | T_phj | - | 0.6 | 0.85 | ps | Integration bandwidth =12 kHz~20 MHz |

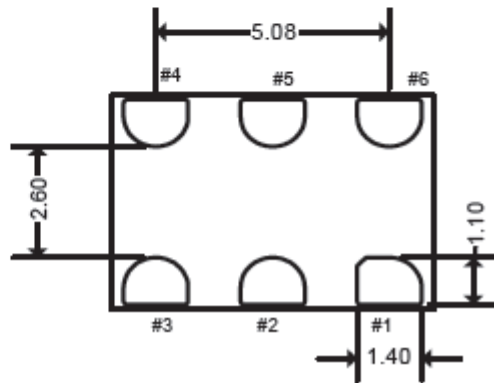


| | | |
|----|----------------------------|--------------------------|
| 26 | Mechanical Shock | MIL-STD-883F,Method 2002 |
| | Mechanical Vibration | MIL-STD-883F,Method 2007 |
| | Temperature Cycle | JESD22, Method A104 |
| | Solderability | MIL-STD-883F,Method 2003 |
| | Moisture Sensitivity Level | MSL1 @260°C |

2、Mechanical Structure(mm)



| Pin | Function |
|-----|----------|
| #1 | NC |
| #2 | NC |
| #3 | GND |
| #4 | OUT+ |
| #3 | OUT- |
| #4 | VDD |



unit:mm

Note1: Tolerance ± 0.2 mm without mark

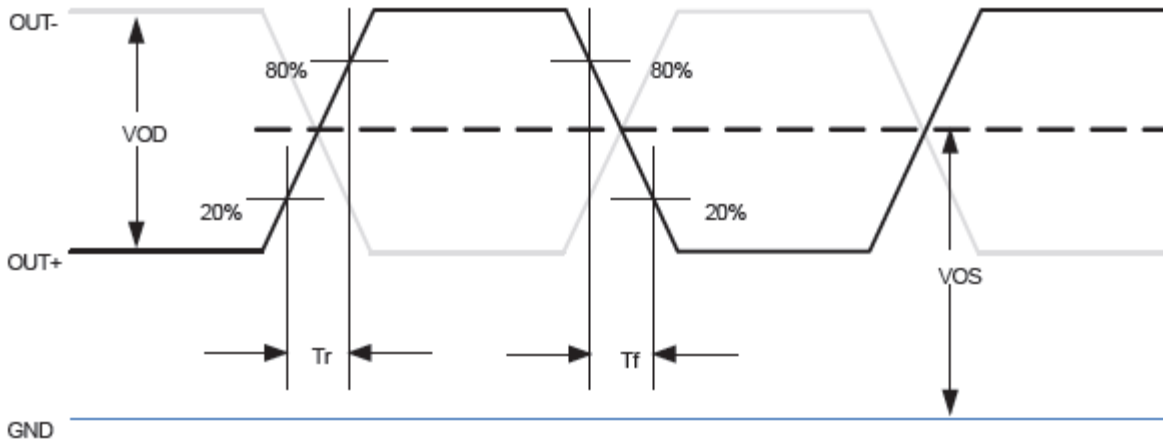
Note2: Referential weight 0.2g

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

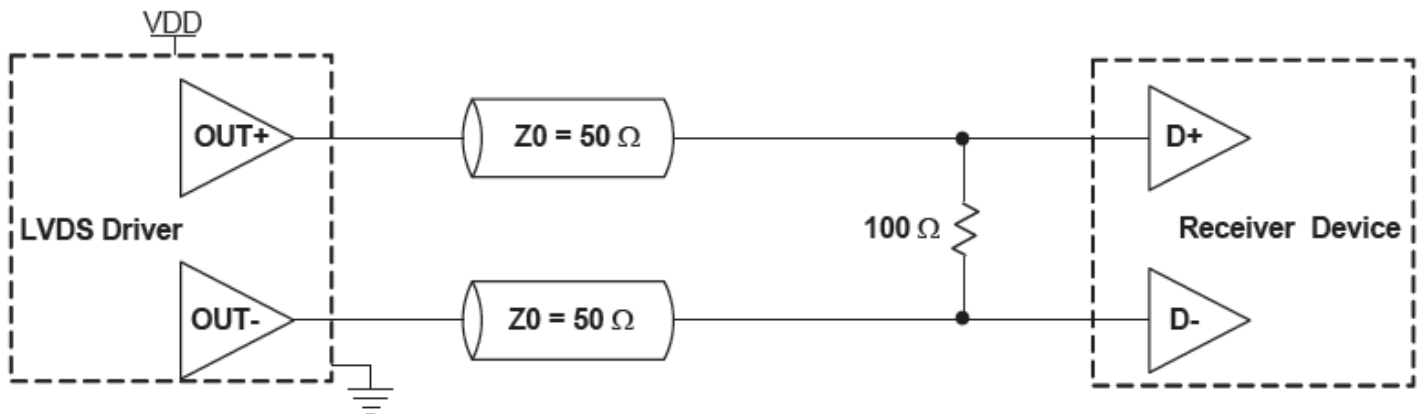
Note4: A capacitor of value 0.1μ F or higher between Vdd and GND is required



3、 Waveform Diagrams



4、 Termination Diagrams



5、 Package: Tape & Reel (mm)

