

Customer Code :

# DATASHEET

DAPU P/N: DPC53100M000AJA2

Plot			The Label
Drew	Audited	Approved	Stamp, please! Thanks!
Jack	David	William	
Date: 2023.05.10			

## Guangdong Dapu Telecom Technology Co.,Ltd

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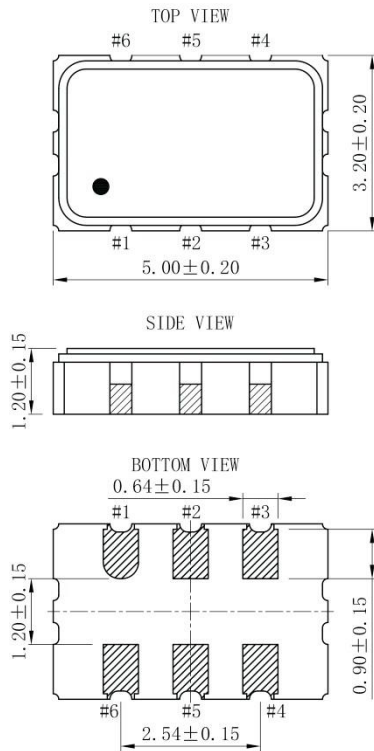
TEL: 0086-0769-88010888 FAX: 0086-0769-81800098

**1、 Electrical Paramete**

MODEL: DPC53100M000AJA2							
No.	Parameters	SYM.	Electrical Spec.				Notes
			Min.	Typ.	Max.	Units	
1	Nominal Frequency	FL	100.00			MHz	
2	Supply Voltage	V <sub>DD</sub>	3.135	3.3	3.465	V	
3	Frequency Tolerance	-	-20		+ 20	× 10 <sup>-6</sup>	At 25°C
4	Frequency Stability	-	-25		+ 25	× 10 <sup>-6</sup>	Over Operating Temperature Range (Reference 25°C)
5	Operating Temperature	T-opr	-55	~	+85	°C	
6	Storage Temperature	T-stg	-55	~	+125	°C	
7	Current Consumption	I <sub>DD</sub> /OE			40	mA	Output Enabled
8	Output Load Condition	-	100			Ω	Between outputs
9	Again	-	-3		+3	× 10 <sup>-6</sup>	At 25 °C, 3.3 V, First year
Enable Feature							
10	“H” Input Voltage	V <sub>IH</sub>	V <sub>DD</sub> *0.7			V	
11	“L” Input Voltage	V <sub>IL</sub>			V <sub>DD</sub> *0.3	V	
12	E/D(#1 pin E/D)	Logic “1”or Floating ,Outputs enable; Logic “0” ,Outputs disable					
Output LVDS							
13	“H” Output Voltage	V <sub>OH</sub>			1.6	V	
14	“L” Output Voltage	V <sub>OL</sub>	0.9			V	
15	Output Voltage Swing	V <sub>OS</sub>	0.3			V	
16	Duty Cycle	DC	45		55	%	
17	RMS Jitter	-			200	fs	12KHz to 20MHz



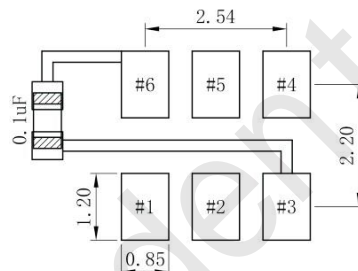
## 2、 Mechanical Structure



PAD CONNECTIONS

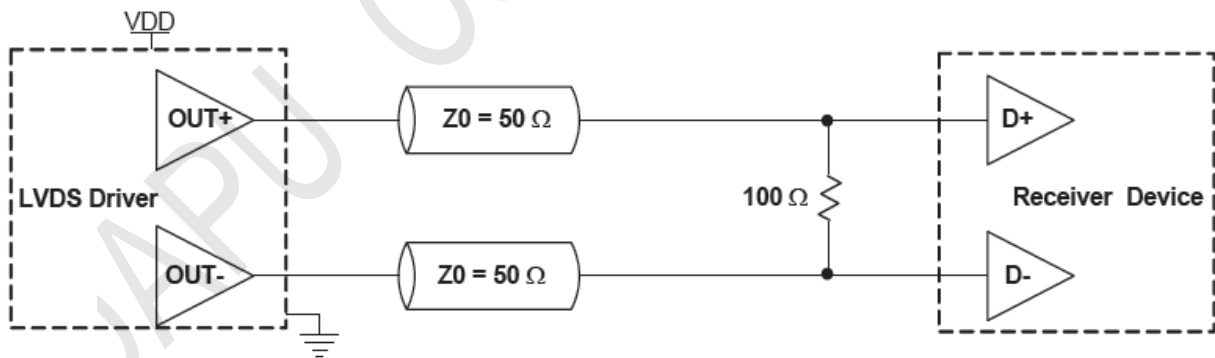
PAD	FUNCTION
#1	Tri-State or N/C
#2	N/C
#3	GND
#4	R. F. Output
#5	Complimentary R. F. Output
#6	+VDC

RECOMMENDED SOLDER PAD LAYOUT



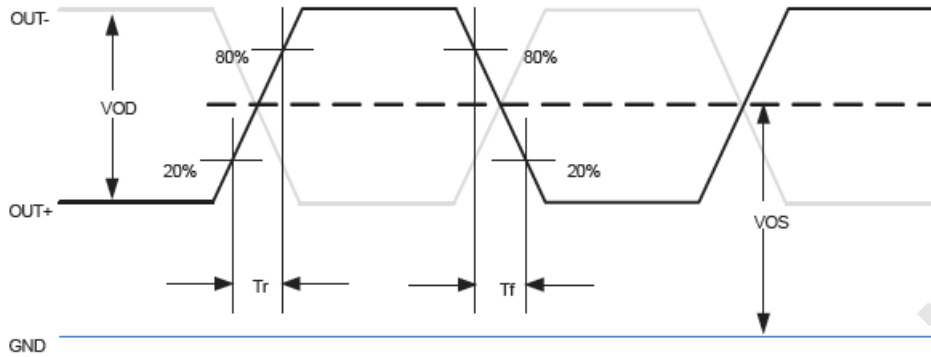
To ensure optimal oscillator performance, place a by-pass capacitor of 0.1uF as close to the part as possible between +VDC and GND pads.

## 3、 Test Circuit





## 4、 Output Waveform



## 5、 Reflow Soldering Curve (RoHS)

