Pin No.	Pin Name	IO and periphery cell needed	Reason
1	REF_CLK	sky130_fd_iotop_power_lvc_wpad	
	_	,	This cell have a direct connection from pad to
			core (through a "short" metal resistor) to
			provide the analog input(REF_CLK signal) to chip.
2	NC		
3	NC		
4	B_CP	sky130_fd_iogpiov2	This gpio cell can be used in output mode using
			output buffer with specific signals applied to the
			gpio cell. It also satisfies the corresponding drive
			capability required(10uA).
5	B_VCO	sky130 fd io gpiov2	This gpio cell can be used in output mode using
	5	sky 100uobpi0v1	output buffer with specific signals applied to the
			gpio cell. It also satisfies the corresponding drive
			capability required(5uA).
6	VCO_IN	sky130_fd_iotop_power_lvc_wpad	These cells have a direct connection from pad
			to core (through a "short" metal resistor) to
			apply the analog input to the chip from the
_			board.
7	EN_CP	sky130_fd_iogpiov2	This gpio cell can be used in input mode using
			input buffer with specific signals applied to the gpio cell.
8	EN_VCO	sky130_fd_iogpiov2	This gpio cell can be used in input mode using
O	LIV_VCO	3Ky130_Id_I0gpI0V2	input buffer with specific signals applied to the
			gpio cell.
9	VDDA	sky130_fd_iotop_power_lvc_wpad	Si
			LV(1.8V) can be applied to chip through this cell
			and also has LV ESD clamp embedded in it .
10	VSSA	sky130_fd_iotop_ground_lvc_wpad	It is the ground pad and also have LV ESD clamp
			embedded in it.
11	VSSD	sky130_fd_iotop_ground_lvc_wpad	It is the ground pad and also have LV ESD clamp embedded in it.
12	VDDD	sky130_fd_iotop_power_lvc_wpad	LV(1.8V) can be applied to chip through this cell
12	VDDD	sky130_td_totop_power_tvc_wpad	and also has LV ESD clamp embedded in it.
			and also has 27 200 damp embedded in th
13, 14	NC		
15	NC		
16	VDDR	sky130_fd_iotop_power_hvc_wpad	
			HV(3.3V) can be applied to chip through this cell
	CNDD	1.400 (1)	and also have HV ESD clamp embedded in it.
17	GNDR	sky130_fd_iotop_ground_hvc_wpad	It is the ground pad and also have HV ESD clamp embedded in it.
18	VDDO	sky130_fd_iotop_power_hvc_wpad	embedded in it.
10	*550	sky 130_ld_lotop_powel_live_wpau	HV(3.3V) can be applied to chip through this cell
			and also have HV ESD clamp embedded in it.
19	GNDO	sky130_fd_iotop_ground_hvc_wpad	It is the ground pad and also have HV ESD clamp
			embedded in it.
20,21,22,23	3 GPIO_0,12,3	sky130_fd_iogpiov2	For these pins, gpio cell can be used in input
			mode using input buffer with specific signals
			applied to the gpio cell.
24	CLK	sky130_fd_iotop_power_lvc_wpad	These cells have a direct connection from pad
			to core (through a "short" metal resistor) to
			derive the analog output(CLK signal) of chip out
			of package.