

Model: TLUC2-1G50G-IF1G

1G~50G Up Convertor IF : 10MHz~1GHz

Feature:

- Input Frequency: 10MHz~1GHz\3Hz~2GHz
- Output Frequency: 1G~50G \3Hz~2GHz
- Output Power : 0dBm@50GHz
- 50 Ohm Matched Input / Output

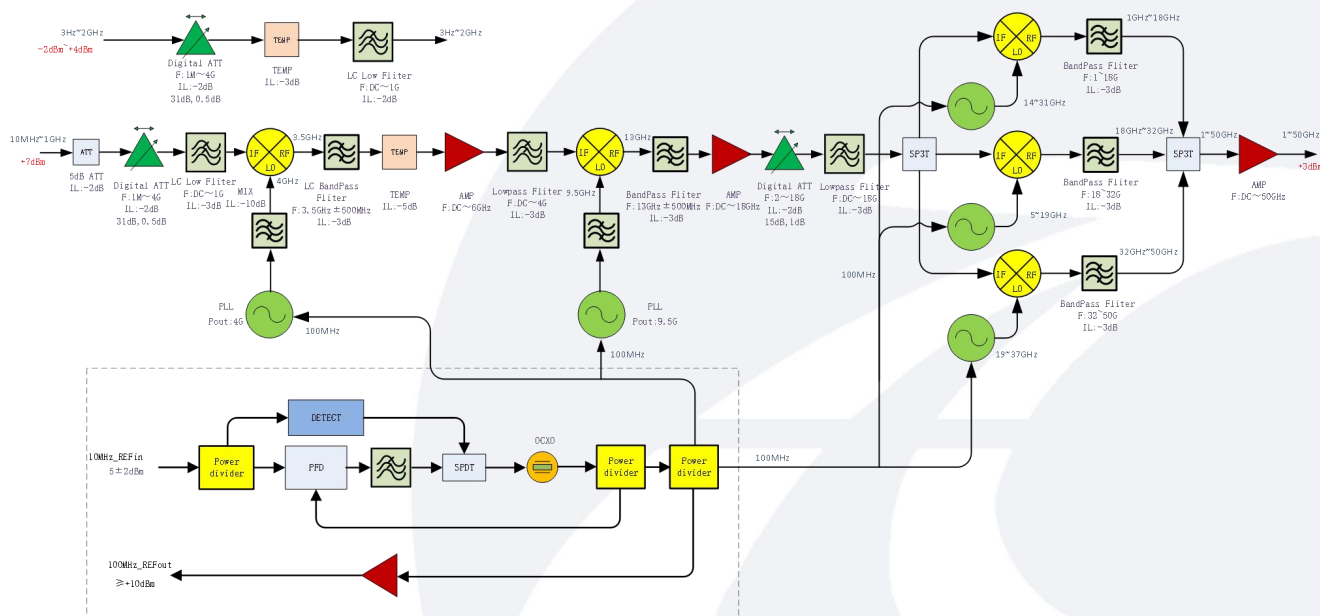
Electrical Specifications:

	Parameter	Min	Typ	Max	Desc.
Up-conversion channel	IF Frequency	10MHz		1GHz	
	IF Input Power		+7dBm		
	RF Freq. Out	1GHz		50GHz	2.4mm Female
	RF Output Power	-35dBm		+3dBm	0dBm@50GHz
	Attenuation Range		38dB		
	Attenuation Step		1dB		
	Phase Noise	≤ -75dBc/Hz@1KHz			
		≤ -85dBc/Hz@10KHz			
		≤ -90dBc/Hz@100KHz			
		≤ -100dBc/Hz@1MHz			
Spurious @RF out		40dBc			
Calibration channel	Input Frequency	3Hz		2GHz	
	Output Frequency	3Hz		2GHz	
	Input Power	-2dBm		+4dBm	
	Attenuation Range		31dB		
	Attenuation Step		1dB		
	Input Reference Clock	10MHz			Input power≥5dBm, Adaptive
	Output Reference Clock	100MHz			
	Output Reference Clock Power		10dBm		
	Control Interface	RS232			
	Supply	+12			DC IN
	Supply Interface	J30J-9ZKP			

Supply I/O Table:

Number	Definition	Function	Type
1	DC +12	Supply	J30J-9ZKP
2	JTMS-SWDIO	Debug	
3	JTCK-SWCLK	Debug	
4	RS232_TX	Data transmission	
5	RS232_RX	Data reception	
6	DC +12	Supply	
7	GND	GND	
8	GND	GND	
9	GND	GND	

Block Diagram:



Ordering Information:

Part Number	Description	Revision
TLUC2-1G50G-IF1G	1GHz~50GHz Up Converter IF :10MHz~1GHz	Rev.1.0