

TLFS11-0220-M

0.2-22 GHz Frequency synthesizer, 10 dBm

电气参数 Electrical Characteristics:

参数Parameter		参数Parameter			
Input Frequency输入频率 (MHz)		10			
Input Power 输入功率 (dBm)		5±3			
Input Reference Phase Noise输入参考相位噪声		-155dBc/Hz@1kHz			
Impedance输入阻抗		50 Ω			
Output Frequency输出频率 (MHz)		200~20000			
Frequency Step频率步进 (Hz)		0.1 (100MHz~15GHz) / 0.2 (15GHz~20GHz)			
Switching time跳频时间 (uS)		≤ 200			
Output Power输出功率 (dBm)		-40~+10			
Power Step功率步进 (dBm)		0.1			
Flatness输出功率平坦度 (dBm)		±1 (0~+10dBm) / ±2 (-40~0dBm)			
Frequency stability频率稳定度		2×10 ⁻⁷ (Synchronizes the external reference when external reference is used)			
frequency accuracy频率准确度		2×10 ⁻⁷ (Synchronizes the external reference when external reference is used)			
Spurious杂散 (dBc)		≤ -70 (Typ) ≤ -65 (Max)			
Harmonics谐波 (dBc)		≤ -20 (0dBm test)			
Phase Noise相位噪声	dBc/Hz@100Hz	@1GHz	≤ -105	@5GHz	≤ -91
	dBc/Hz@1kHz		≤ -125		≤ -113
	dBc/Hz@10kHz		≤ -135		≤ -122
	dBc/Hz@100kHz		≤ -135		≤ -122
	dBc/Hz@1MHz		≤ -135		≤ -122
Phase Noise相位噪声	dBc/Hz@100Hz	@10GHz	≤ -85	@20GHz	≤ -79
	dBc/Hz@1kHz		≤ -107		≤ -101
	dBc/Hz@10kHz		≤ -116		≤ -110
	dBc/Hz@100kHz		≤ -116		≤ -110
	dBc/Hz@1MHz		≤ -116		≤ -110
Power Supply供电 (V/A)		+12V/1.6A (Start up) / +12V/1.3A (working)			
Max Voltage 最大电压 (V)		+15V			

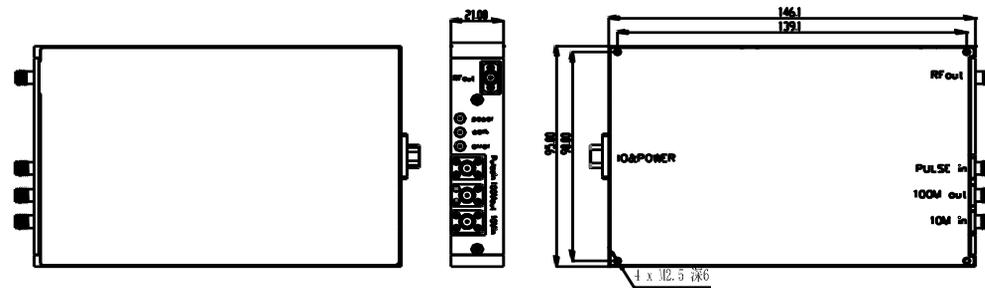
控制方式

环境和物理特性 Environmental And Physical Characteristics:

参数Parameter	参数Parameter
Operating Temperature操作温度	-40°C to +70°C
Storage Temperature存储温度	-55°C to +85°C
Vibration(operating)震动	10G RMS, 20-2000HZ
Shock 冲击	50G, 1/2Sine, 12msec
Connector射频接口	3.5mm Female
DC connector直接接口	J30J-9-ZKP
Weight重量	TBD

Unit: mm

外形尺寸 Outline Drawing:



MICRO-D9 Female Define	
引脚 Pin #	功能 Function
1-2	+12V
3-4	GND
5-7	NC
8	RS232-RX
9	RS232-TX

订货信息 Ordering Information:

标准型号 Part Number	描述 Description	版本号 Revision
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