

TLFS11-0220-M

0.2-22 GHz Frequency synthesizer, 10 dBm

电气参数 Electrical Characteristics:

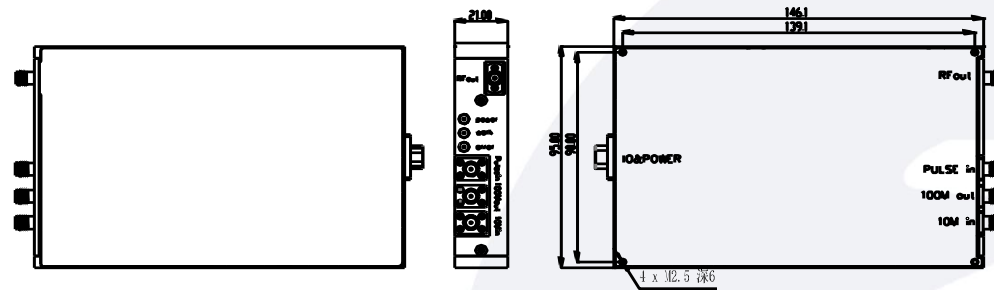
参数Parameter		参数Parameter			
Input Frequency 输入频率 (MHz)		10			
Input Power 输入功率 (dBm)		5±3			
Input Reference Phase Noise 输入参考相位噪声		-155dBc/Hz@1kHz			
Impedance 输入阻抗		50 Ω			
Output Frequency 输出频率 (MHz)		200~20000			
Frequency Step 频率步进 (Hz)		0.1 (100MHz~15GHz) / 0.2 (15GHz~20GHz)			
Switching time 跳频时间 (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			
Control 控制方式		RS232			
pulse modulation 脉冲调制 (ALC Closed Mode) 5°C					
modulation depth 调制深度		≥ 60dBc (测试功率: +10dBm)			
Modulated pulse width 调制脉冲宽度		100ns~10ms			
Modulated Cycle Time		500ns~10ms			

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
TLFS11-0220-M	0.2-22 GHz Frequency synthesizer, 10 dBm,	Rev.1.1