

Model: TLLA2G4.8G-28-00-Cryo

C-band Cryogenic Low Noise Amplifier 2-4.8GHz, Noise temperature: 6 K, Gain: 25 dB

Feature:

- Ultra Wide Band: 2-4.8GHz
- Gain: 25dB Min
- Average Noise temperature: 4K Max@12K
- Technology: InP / GaAs
- 50 Ohm Matched Input / Output

电气特性 Electrical:

参数Parameter	Min.	Typ.	Max.	单位Units
频率范围 Frequency range	2-4.8			GHz
增益 Gain	25			dB
增益平坦度 Gain Flatness		±0.75		dB
平均噪声温度 Average Noise temperature @15K			6	K
输入回波损耗 Input Return Loss			-10	dB
输出回波损耗 Output Return Loss			-15	dB
漏极电压范围 Drain voltage range	0.6		1.4	V
漏极电流范围 Drain current range		20		mA
栅极电压范围 Gate voltage range	-2		+2	V
功耗 Power Consumption			10	mw
阻抗 Impedance	50			Ohms

机械特性 Mechanical:

参数Parameter	指标 Value	单位Units
输入输出接口 Input /Output Connector	SMA Female	
直流偏置 Bias	Micro MDM 9-P	
尺寸 Size	48*27*9	mm

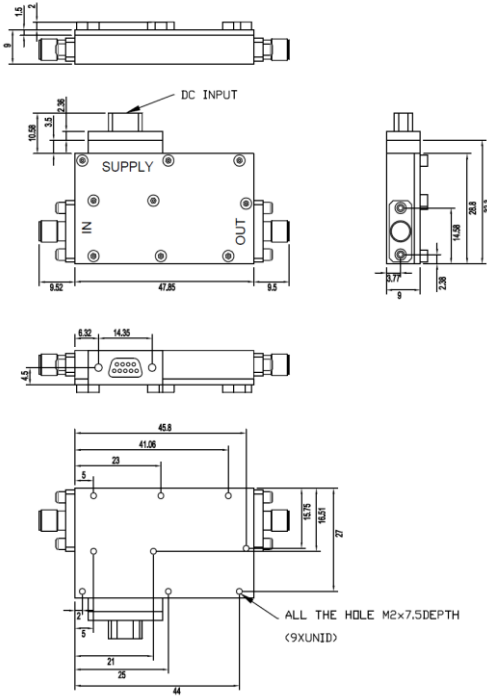


绝对最大值 Absolute Maximum Ratings:

参数Parameter	指标 Value
漏极电压 Drain voltage	+1.4V
栅极电压 Gate voltage	+2 V
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

外形尺寸 Outline Drawing:

Unit: mm



Nano D connector Define	
引脚 Pin #	功能Function
1	GND
2	VD1
3	VG1
4	VD2
5	VG2
4-9	NC



温度环境 Environmental Conditions:

参数Parameter	Min.	Typ.	Max.	单位Units
相对湿度 Relative humidity		95		%
海拔 Altitude		50,000		feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

订货信息 Ordering Information:

标准型号 Part Number	描述 Description	版本号Revision
TLLA2G4.8G-25-00-Cryo	S-band Cryogenic Low Noise Amplifier 2-4.8GHz, Noise temperature:2.5K, Gain:40 dB	Rev.1.1

典型曲线 Typical Performance Data:

