

Model TURLA20G40G-2100Cryo

Ka-band Cryogenic Low Noise Amplifier
20-40GHz, Noise Figure: 0.9dB , Gain:20 dB

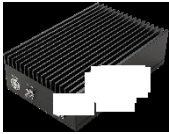
- Feature:
- Ultra Wide Band: 20-40 GHz
 - Gain: 20 dB Typ
 - Noise Figure: 1.7 dB Typ
 - Technology:InP
 - 50 Ohm Matched Input / Output

电气特性 Electrical:

参数Parameter	Min.	Typ.	Max.	单位Units
频率范围 Frequency range	20-40			GHz
增益 Gain		20		dB
增益平坦度 Gain Flatness		±2.0		dB
噪声系数 Noise Figure@296K		1.7		dB
输出P1dB Output P1dB		-5		dBm
输入回波损耗 Input Return Loss		-8		dB
输出回波损耗 Output Return Loss		-8		dB
漏极电压范围Drain voltage range	0.6		1.5	V
漏极电流范围Drain current range		25		mA
栅极电压范围Gate voltage range	-2		+2	V
功耗 Power Consumption		30		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	2.92mm Female	
直流偏置 Bias	Nano D connector	
尺寸 Size	19.6*22.5*8.16	mm



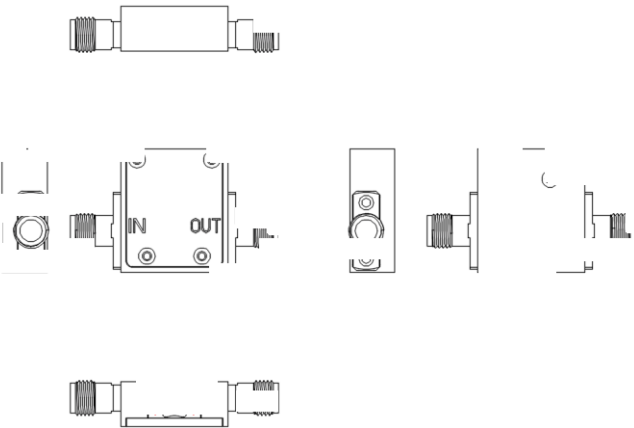
Available 220V System
Benchtop Amplifier

绝对最大值 Absolute Maximum Ratings:

参数Parameter	指标 Value
漏极电压 Drain voltage	+1.5V

外形尺寸Outline Drawing:

Unit: mm



Nano D connector Define	
引脚 Pin #	功能Function
1,2	NC
3	GND
4	VD
5	VG
4-9	NC



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

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
TURLA20G40G-2100Cryo	Ka-band Cryogenic Low Noise Amplifier 20-40GHz, Gain:20 dB	Rev.1.1