

Model:TLPA100M1000M-35-45
Power Amplifier
100-1000MHz,Gain:35dB,Psat:45dBm
Feature:

- Ultra Wide Band: 100-1000MHz
- Gain:35 dB Min
- Psat Output Power: 45 dBm Min
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

电气特性 Electrical Specifications:

参数Parameter	Min	Typ	Max	单位Units
频率范围 Frequency range	100-1000			MHz
增益 Gain	35	38		dB
增益平坦度 Gain Flatness		±1.5	±2	dB
线性输出功率 Outout P1dB	42	43		dBm
饱和输出功率 Output Psat	45	46		dBm
输入驻波 Input VSWR		1.5	2.0	:1
输出驻波 Output VSWR		1.5	2.0	:1
直流电压 DC Voltage	+28			V DC
直流电流 DC Supply Current		1	12	A
阻抗 Impedance	50			Ohms

机械特性 Mechanical Specifications:

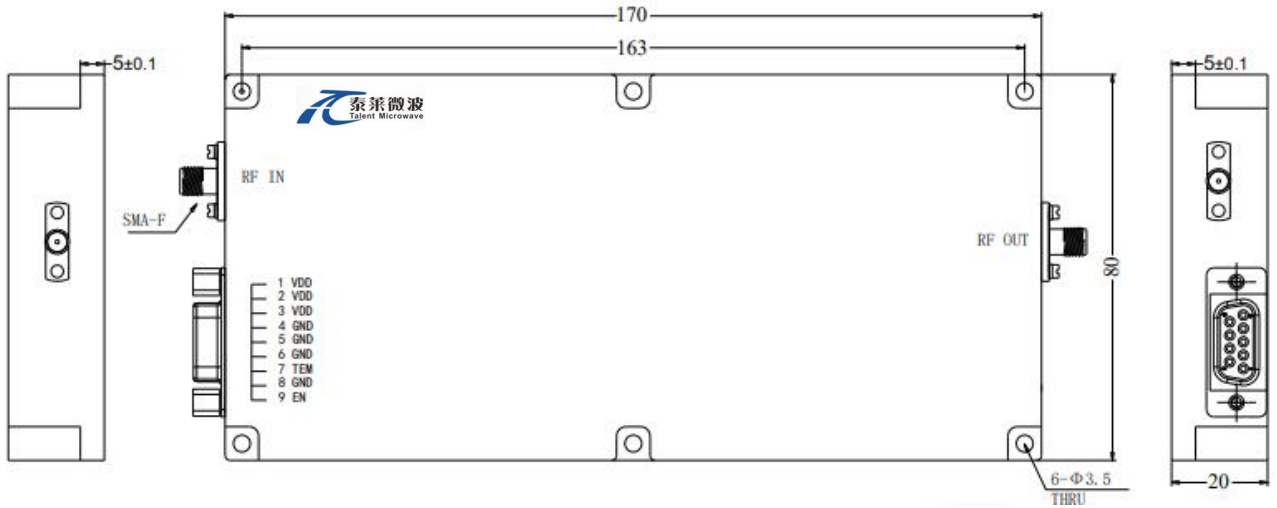
参数Parameter	指标 Value	单位Units
输入输出接口 Input /Output Connector	SMA Female/SMA Female	
直流偏置 DC Bias	D-SUB-9	
尺寸 Size	170*80*20	mm
重量 Weight	200	g

绝对最大值 Absolute Maximum Ratings:

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+30V
输入功率 RF Input Power	+16 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

外形尺寸 Outline Drawing:

Unit: mm



***Heat Sink Required During Operation



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

温度环境 Environmental Conditions:

参数Parameter	Min	Typ	Max	单位Units
操作温度 Operating Temperature	-45		+85	°C
存储温度 Non-operating Temperature	-55		+125	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	30,000			feet
震动 Shock / Vibration(MIL-STD-810F)	20g,11ms,saw-tooth			
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
TLPA100M1000M-35-45	Power amplifier 100-1000MHz,Gain:35dB,Psat:45dBm,+28V DC,Without Heatsink	Rev.1.1
TLPA100M1000M-35-45-HS	Power amplifier 100-1000MHz,Gain:35dB,Psat:45dBm,+28V DC,With Heatsink	Rev.1.1