

Model:TLPA13.75G14.5G-55-55
Power Amplifier
13.75-14.5GHz,Gain:55dB,Psat:55dBm
Feature:

- Ultra Wide Band: 13.75-14.5 GHz
- Gain: 55 dB Min
- Psat Output Power: 55 dBm Min
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	13.75-14.5			GHz
Power Gain	55			dB
Gain Flatness		±3.5		dB
Linear Gain Adjustment Range/Step		31.5/0.5		dB
Output Psat	55			dBm
Spurious@Pout=55dBm			-60	dBc
2nd Harmonics@Pout=55dBm			-20	dBc
Input VSWR			2.0	:1
DC Voltage		28		V DC
Power Consumption			2500	W
Impedance	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	SMA Female/WR62	
Forward/Reverse Coupling	SMA Female/ SMA Female	40±0.5dB
DC Supply	Y50DX-1804	PIN1~2: +28V PIN3~4: GND
Size	305*342*128	mm
Weight	≤25	g

Absolute Maximum Ratings:

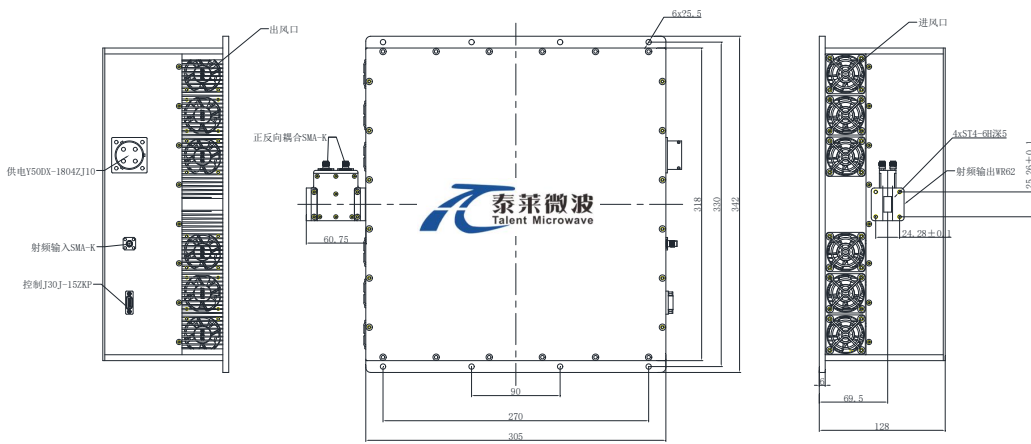
Parameter	Value
Supply Bias Voltage	+28 V
RF Input Power	10 dBm
ESD sensitivity (HBm)	Class 0, passed 150V



**Available 220V System
Benchtop Amplifier**

Outline Drawing:

Unit: mm



***Heat Sink Required During Operation

J30J-15ZKP	
Pin	Function
1-6	0.5/1/2/4/8/16 Decay control bit
7	Power On/Off
8	RF On/Off
9-15	GND



OBSERVE PRECAUTIONS
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DEVICES

Note: All control levels are effective at the high level, while the low level and suspended level are invalid.

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature*	-20		+50	°C
Non-operating Temperature*	-30		+60	°C
Relative humidity		95		%
Altitude	10,000			feet
Shock / Vibration(MIL-STD-810F)	20g,11ms,saw-tooth			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

*Note: For a wider temperature range, please consult the manufacturer.

Ordering Information:

Part Number	Description	Revision
TLPA13.75G14.5G-55-55	Power amplifier 13.75-14.5GHz,Gain:55dB,Psat:55dBm, +28V DC,Without Heatsink	Rev.1.1
TLPA13.75G14.5G-55-55-HS	Power amplifier 13.75-14.5GHz,Gain:55dB,Psat:55dBm, +28V DC,With Heatsink	Rev.1.1