

Low Noise Amplifier

WR-28/26.5-40GHz /3dB NF/30dB Gain

Model: TMLA-026040-3030-28

TMLA-026040-3030-28 is a Ka-Band low noise amplifier with a minimum small signal gain of 30 dB and a maximum noise figure of 3 dB across the frequency range of 26.5 to 40 GHz. The DC power requirement for the amplifier is +6 VDC . The input and output port configuration offers an inline structure with WR-28 waveguides and UG-599/U anti-cocking flanges.

Features:

- Ultra Wide Band:26.5-40GHz
- Gain: 30dB Min
- Noise Figure: 3.0dB Min
- Unconditional stability

Applications:

- 5G & 6G
- Test & Measurement
- Mobile & Satellite Communications
- Radar Systems
- Weather & Earth Observation

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Frequency range	26.5		40	GHz
Small Signal Gain	30	35		dB
Noise Figure		2.8	3.0	dB
Output Psat	19	21		dBm
Input VSWR		2.0		:1
Output VSWR		2.0		:1
DC Voltage	+5	+6	+8	V DC

Mechanical Specifications:

Parameter	Value	Units
Input Connector	WR-28/ UG-599/U	
Output Connector	WR-28/ UG-599/U	
Power Supply Pin	Solder Pin	
Size	TBD	mm

Absolute Maximum Ratings:

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

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature	-10		+65	°C
Non-operating Temperature	-45		+85	°C
Relative humidity		95		%
Altitude	10,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

Base Number	Description	Revision
TMLA-026040-3030-28	Low Noise Amplifier,26.5-40GHz, Noise Figure:3dB, Gain:30dB,+6V DC,WR-28	Rev.1.1