

TMLA-12003300-3120-25 12-33 GHz, 31dB, P1dB 20dBm, N.F. 2.5dB

FEATURES

- ❖ Wide Band Operation 12-33 GHz
- ❖ Small Signal Gain 35dB Typical
- ❖ P1dB Output Power +23dBm Typical
- ❖ Supply Voltage +12V

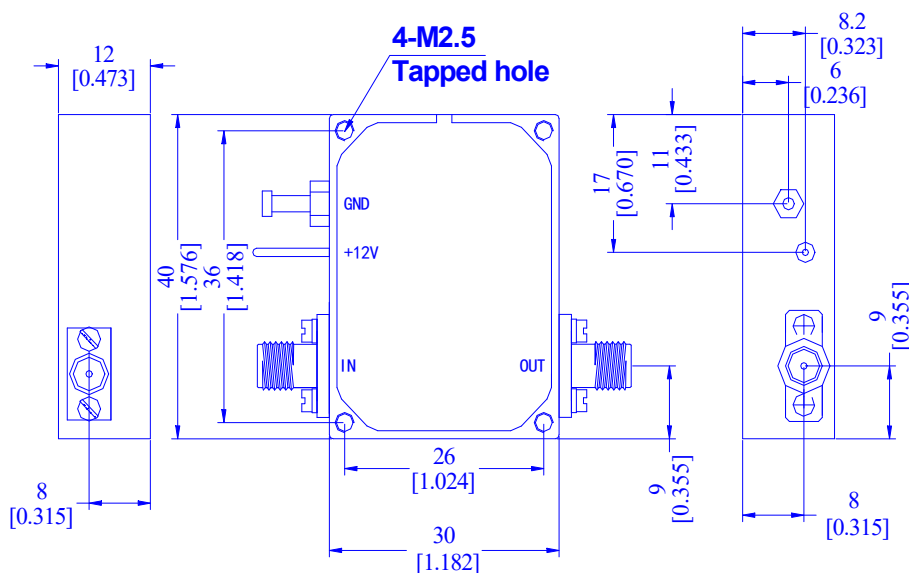
APPLICATIONS

- ❖ Wireless Infrastructure
- ❖ 5G Communication
- ❖ Test and Measurement Instrument

SPECIFICATIONS

Parameters	Min.	Typ.	Max.	Min.	Typ.	Max.	Units
Frequency Range	12	-	22	22	-	33	GHz
Impedance	-	50	-	-	50	-	Ohms
Gain	31	34	40	28	32	39	dB
Gain Flatness	-	±2.5	-	-	±3.0	-	dB
Gain Variation Over Temperature(-40°C~+85°C)	-	±0.8	-	-	±1.0	-	dB
Noise Figure	-	2.5	4.5	-	3.5	5.0	dB
Input VSWR	-	1.6	2.2	-	1.8	2.5	:1
Output VSWR	-	1.5	2.2	-	1.8	2.5	:1
Output 1dB Compression Point(P1dB)	20	23	-	19	23	-	dBm
Saturated Output Power(Psat)	-	25	-	-	24	-	dBm
Output 3rd Order Intercept(OIP3)	-	29	-	-	29	-	dBm
Supply Current(Vcc=+12V)	-	380	450	-	380	450	mA
Operating Temperature	-40°C~+85°C						
Storage Temperature	-50°C~+105°C						
Input/Output Connectors	2.92mm female						
Weight	45g max						
Surface Finishing	Gold Plated						
Material	Aluminum						

Outline Drawing [mm[inch]]



Tolerances ±0.1[0.004]

Absolute Maximum Ratings

Operating Voltage	+15V
RF Input Power	-2dBm

Note: *Heatsink required when operation, sell separately.*