

TMLA-27004000-3011-28 27-40 GHz, 30dB, P1dB 11.5dBm, N.F. 2.8dB

FEATURES

- ❖ Wide Band Operation 27-40 GHz
- ❖ Small Signal Gain 34dB Typical
- ❖ P1dB Output Power +11.5dBm Typical
- ❖ Supply Voltage +12V@120mA

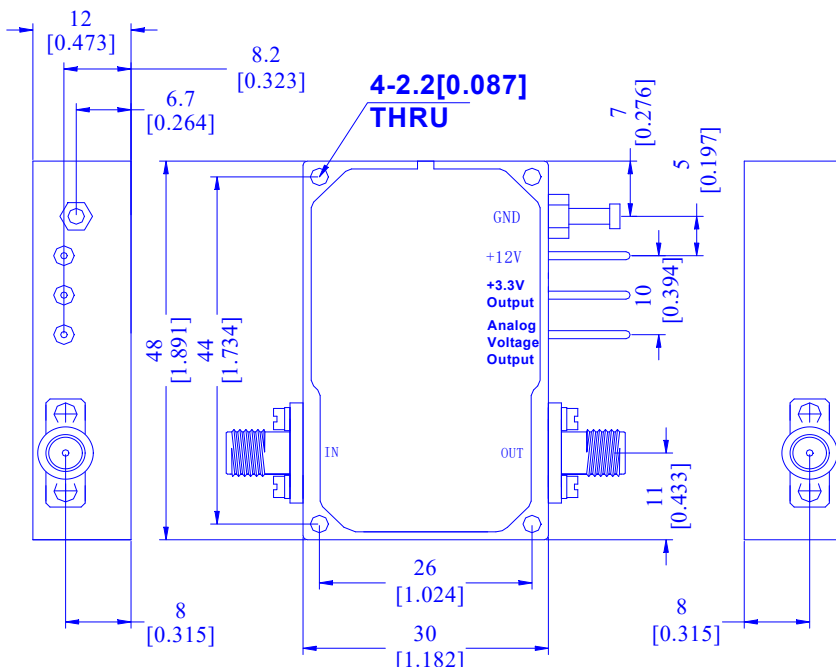
APPLICATIONS

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

SPECIFICATIONS

Parameters	Min.	Typ.	Max.	Units
Frequency Range	27	-	40	GHz
Impedance	-	50	-	Ohms
Gain	30	34	-	dB
Gain Flatness	-	±2.0	±3.0	dB
Noise Figure	-	2.8	3.5	dB
Input VSWR	-	2.0	2.5	:1
Output VSWR	-	1.6	2.0	:1
Output 1dB Compression Point(P1dB)	8.5	11.5	-	dBm
Saturated Output Power(Psat)	-	13.5	-	dBm
Output 3rd Order Intercept(OIP3)	-	22	-	dBm
Supply Current (I _{dd}) (V _{cc} =+12V)	-	120	150	mA
Detector output(RF Input>-40dBm@35GHz)	-	+3.3	-	V
Detector output(RF Input<-42dBm@35GHz)	-	0	-	V
Analog Voltage Output(RF Input>-40dBm@35GHz)	-	0.2	-	V
Operating Temperature	-40°C~+85°C			
Storage Temperature	-50°C~+105°C			
Input/Output Connectors	2.92mm female			
Weight	50g 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	+10dBm

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