

TMLA-12001800-2917-25 12-18 GHz, 29dB, P1dB 17.5dBm, N.F. 2.5dB

FEATURES

- ❖ Wide Band Operation 12-18 GHz
- ❖ Small Signal Gain 31dB Typical
- ❖ P1dB Output Power +19.5dBm Typical
- ❖ Supply Voltage +12V@200mA

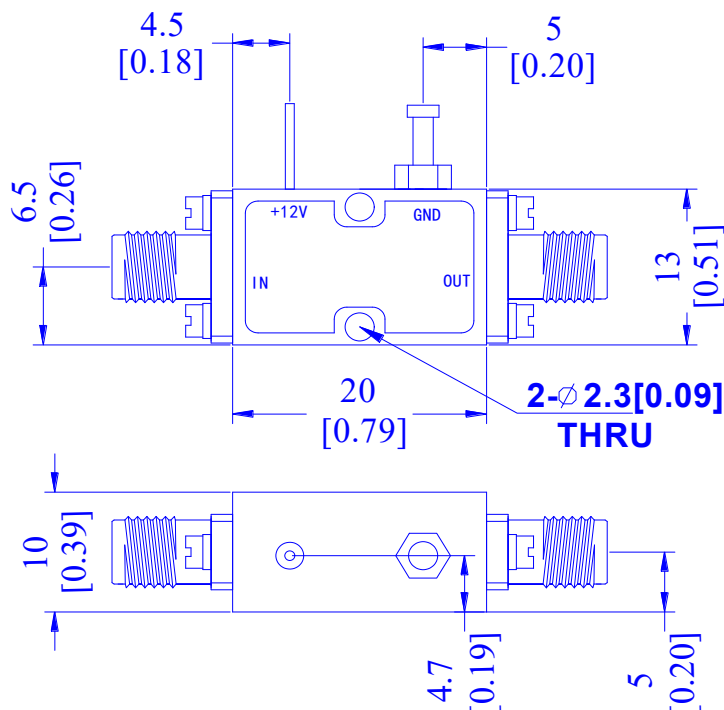
APPLICATIONS

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

SPECIFICATIONS

Parameters	Min.	Typ.	Max.	Units
Frequency Range	12	-	18	GHz
Impedance	-	50	-	Ohms
Gain	29	31	-	dB
Gain Flatness	-	±1.0	-	dB
Gain Variation Over Temperature(-40°C~+85°C)	-	±0.8	±1.0	dB
Noise Figure	-	2.0	2.5	dB
Input VSWR	-	1.7	2.0	:1
Output VSWR	-	1.5	2.0	:1
Output 1dB Compression Point(P1dB)	17.5	19.5	-	dBm
Saturated Output Power(Psat)	-	20.5	-	dBm
Output 3rd Order Intercept(OIP3)	-	25	-	dBm
Supply Current(Vcc=+12V)	-	200	230	mA
Operating Temperature	-40°C~+85°C			
Storage Temperature	-50°C~+105°C			
Input/Output Connectors	SMA female			
Weight	10g 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.*