

TMLA-01002000-3515-50 1-20 GHz, 35dB, P1dB 15dBm, N.F. 5.0dB

FEATURES

- ❖ Ultra Wide Band Operation 1-20 GHz
- ❖ Small Signal Gain 35dB Typical
- ❖ P1dB Output Power +14dBm Typical
- ❖ Supply Voltage +12V@190mA

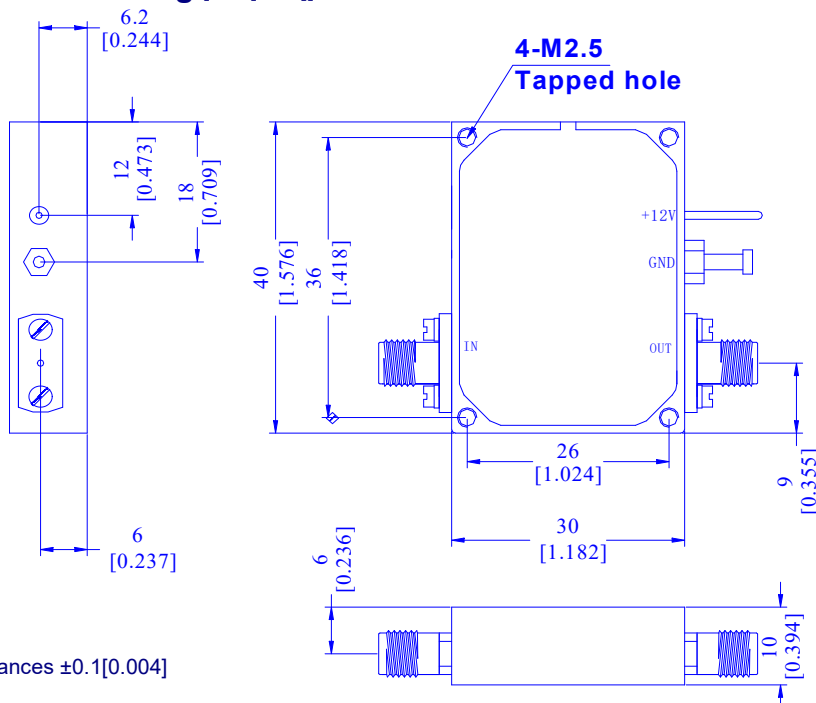
APPLICATIONS

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

SPECIFICATIONS

Parameters	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Units
Frequency Range	1	-	2	2	-	18	18	-	20	GHz
Impedance	-	50	-	-	50	-	-	50	-	Ohms
Gain	28	35	-	32	36	-	29	34	-	dB
Gain Flatness	-	±3.0	±5.0	-	±2.0	±2.8	-	±2.5	±3.0	dB
Gain Variation Over Temperature	-	±1.5	-	-	±2.0	-	-	±2.0	-	dB
Noise Figure	-	10	-	-	5	-	-	9	-	dB
Input VSWR	-	2	-	-	1.5	2	-	1.5	2	:1
Output VSWR	-	2	-	-	1.5	2.3	-	1.5	2.2	:1
Output 1dB Compression Point(P1dB)	12	14	-	9	15	-	5	7	-	dBm
Saturated Output Power(Psat)	-	15	-	-	17	-	-	18	-	dBm
Output 3rd Order Intercept(OIP3)	-	26	-	-	28	-	-	16	-	dBm
Phase Noise@1KHz	-	-150	-	-	-150	-	-	-150	-	dBc
Supply Current(Vcc=+12V)	-	190	220	-	190	220	-	190	220	mA
Operating Temperature	-40°C~+85°C									
Storage Temperature	-50°C~+105°C									
Input/Output Connectors	SMA female									
Weight	40g 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.*