

TMLA-01001800-4216-35 1-18 GHz, 42dB, P1dB 16dBm, N.F. 3.5dB

FEATURES

- ❖ Wide Band Operation 1-18 GHz
- ❖ Small Signal Gain 43dB Typical
- ❖ P1dB Output Power +14dBm Minimum
- ❖ Supply Voltage +15V@200mA

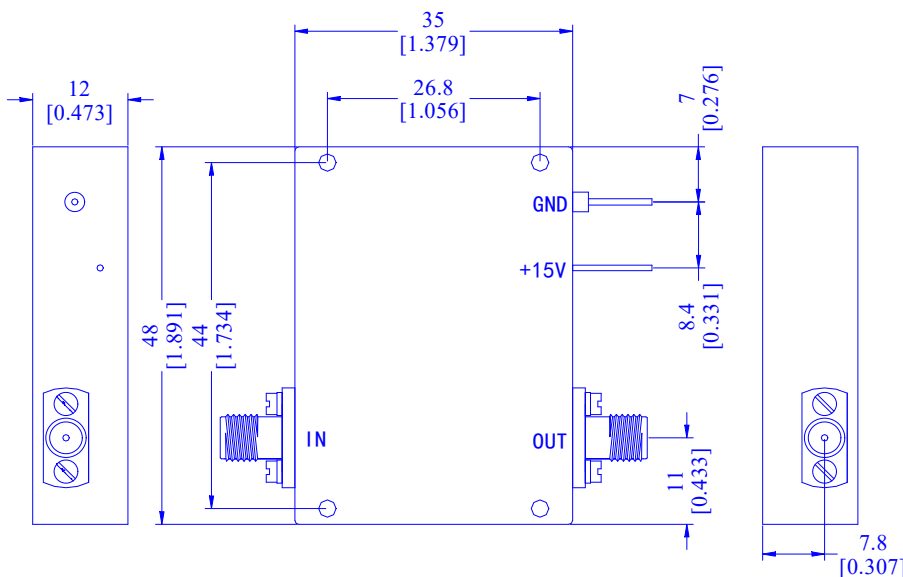
APPLICATIONS

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

SPECIFICATIONS

Parameters	Min.	Typ.	Max.	Min.	Typ.	Max.	Units
Frequency Range	1	-	9	9	-	18	GHz
Impedance	-	50	-	-	50	-	Ohms
Gain	42	43.5	-	40	42	-	dB
Gain Flatness	-	±1.5	±2.0	-	±1.0	±1.5	dB
Gain Variation Over Temperature(-40°C~+85°C)	-	±2.5	-	-	±3.0	-	dB
Noise Figure	-	2.5	3.0	-	3.0	3.5	dB
Input VSWR	-	1.5	1.8	-	1.5	1.8	:1
Output VSWR	-	1.5	1.8	-	1.6	2.0	:1
Output 1dB Compression Point(P1dB)	15	17	-	14	16	-	dBm
Saturated Output Power(Psat)	-	18	-	-	17	-	dBm
Output 3rd Order Intercept(OIP3)	-	28	-	-	27.5	-	dBm
Supply Current(Vcc=+15V)	-	200	300	-	200	300	mA
Operating Temperature	-40°C~+85°C						
Storage Temperature	-50°C~+105°C						
Input/Output Connectors	SMA female						
Weight	50g max						
Surface Finishing	Nickel Plated						
Material	Aluminum						

Outline Drawing [mm[inch]]



Absolute Maximum Ratings

Operating Voltage	+16V
RF Input Power	+10dBm

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

Tolerances ±0.1[0.004]