

TMLA-02002000-1212-45 2-20 GHz, 12dB, P1dB 12dBm, N.F. 4.5dB

FEATURES

- ❖ Wide Band Operation 2-20 GHz
- ❖ Small Signal Gain 14dB Typical
- ❖ P1dB Output Power +16dBm Typical
- ❖ Supply Voltage +5V@60mA

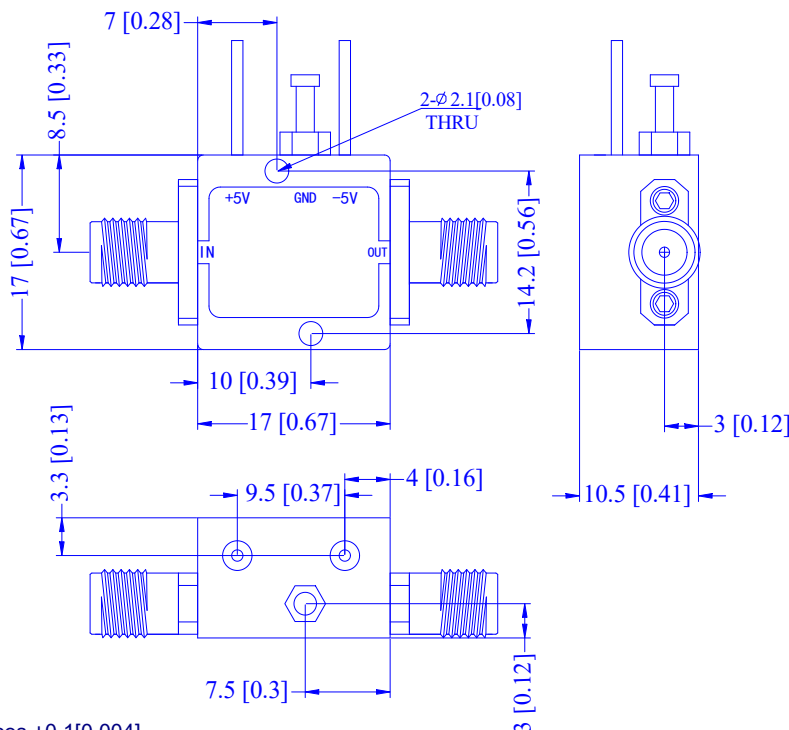
APPLICATIONS

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

SPECIFICATIONS

Parameters	Min.	Typ.	Max.	Min.	Typ.	Max.	Units
Frequency Range	2	-	10	10	-	20	GHz
Impedance	-	50	-	-	50	-	Ohms
Gain	12	14	-	12	14	-	dB
Gain Flatness	-	±0.5	-	-	±0.5	-	dB
Gain Variation Over Temperature(-40°C~+85°C)	-	±0.8	-	-	±0.8	-	dB
Noise Figure	-	2.5	4.0	-	2.5	4.5	dB
Input VSWR	-	1.5	2.5	-	1.5	2.0	:1
Output VSWR	-	1.5	2.0	-	1.8	2.5	:1
Output 1dB Compression Point(P1dB)	16	19	-	12	17	-	dBm
Saturated Output Power(Psat)	-	21	-	-	29	-	dBm
Output 3rd Order Intercept(OIP3)	-	30	-	-	28	-	dBm
Supply Current(Vcc=+5V)	-	60	80	-	60	80	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	+7V
RF Input Power	+18dBm

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