FEATURES:

- Ultra-Broadband Performance
- Positive Gain Slope
- Single Supply Voltage
- Internal Regulator
- Field Replacable SMA Connectors



ELECTRICAL SPECIFICATIONS:

Parameter	Min.	Typ.	Max.	Units
Operating Frequency	2000		20000	MHz
Small Signal Gain	27	30	33	dB
Gain Flatness		±1.5		dB
P3dB	25	27		dBm
P3dB Flatness		±1.5		dBm
Noise Figure		3	6	dB
Input VSWR (2-2.2 GHz)		2:1	2.5:1	
Input VSWR (2.2-20 GHz)		1.5:1	2:1	
Output VSWR (2-18 GHz)		1.5:1	2:1	
Output VSWR (18-20 GHz)		2:1	2.5:1	
Operating DC Voltage		+12		Volts
Operating DC Current		450		mA

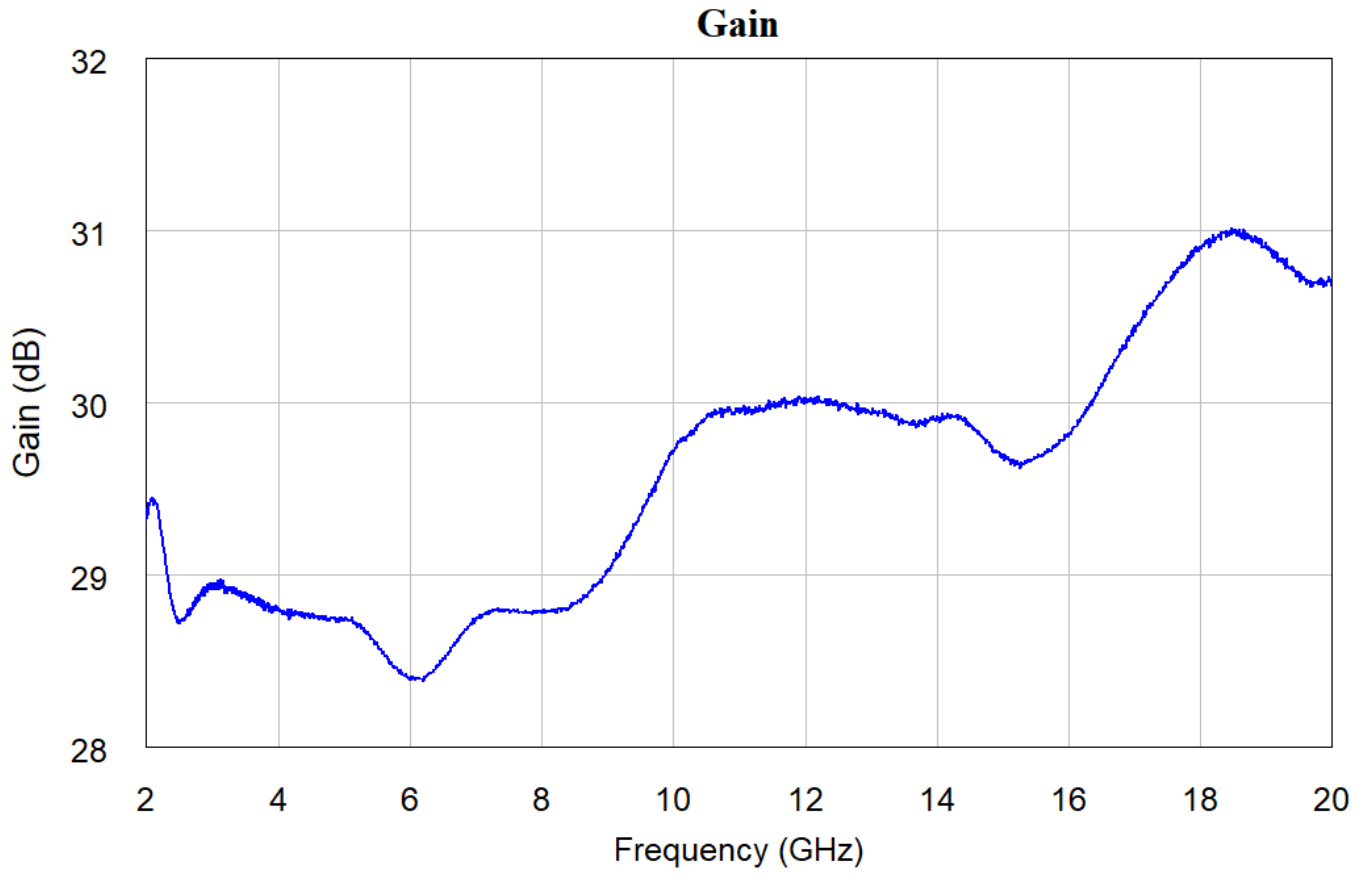
*Electrical specifications are given at 25C.

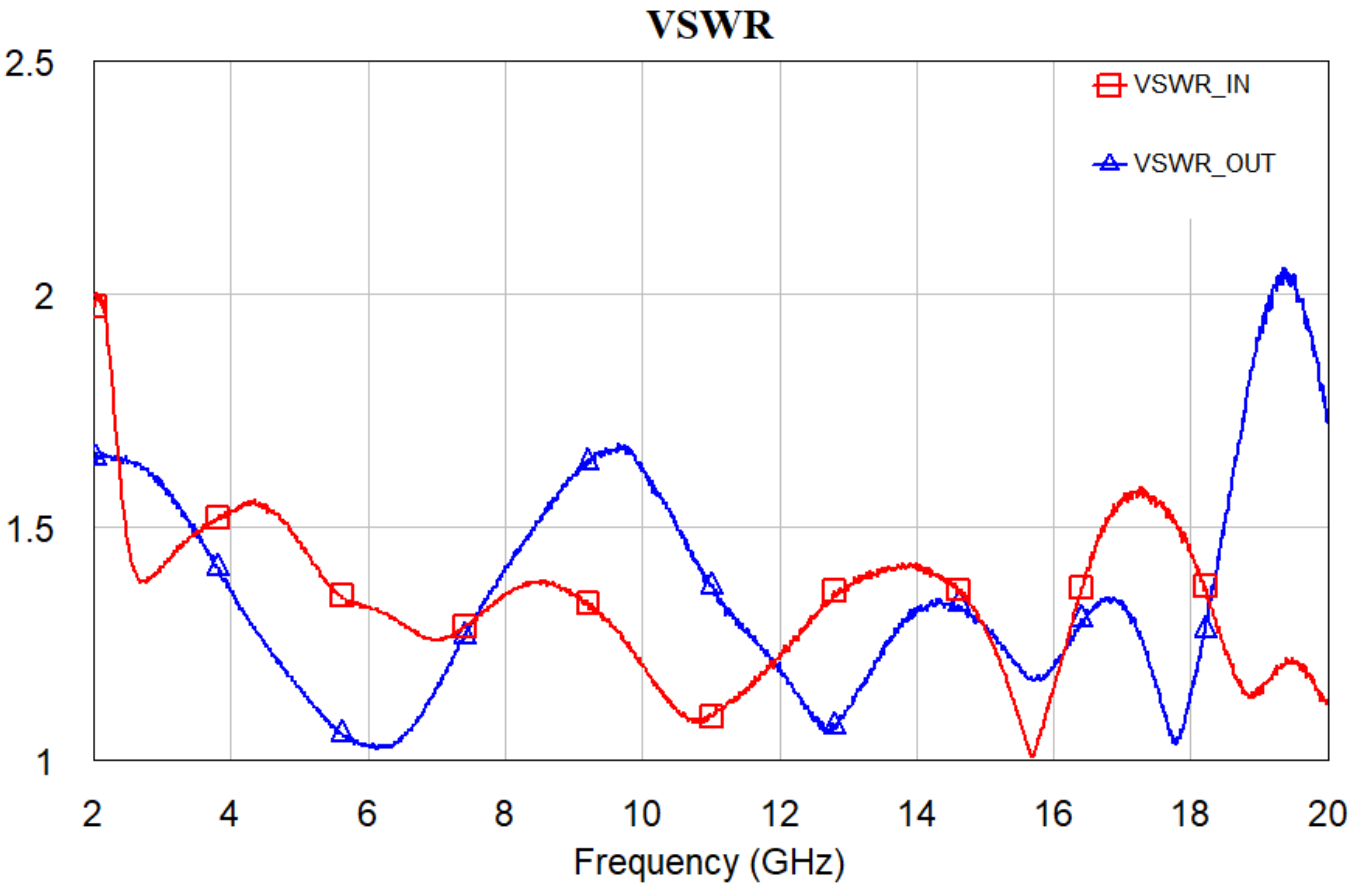
ABSOLUTE MAXIMUM RATING:

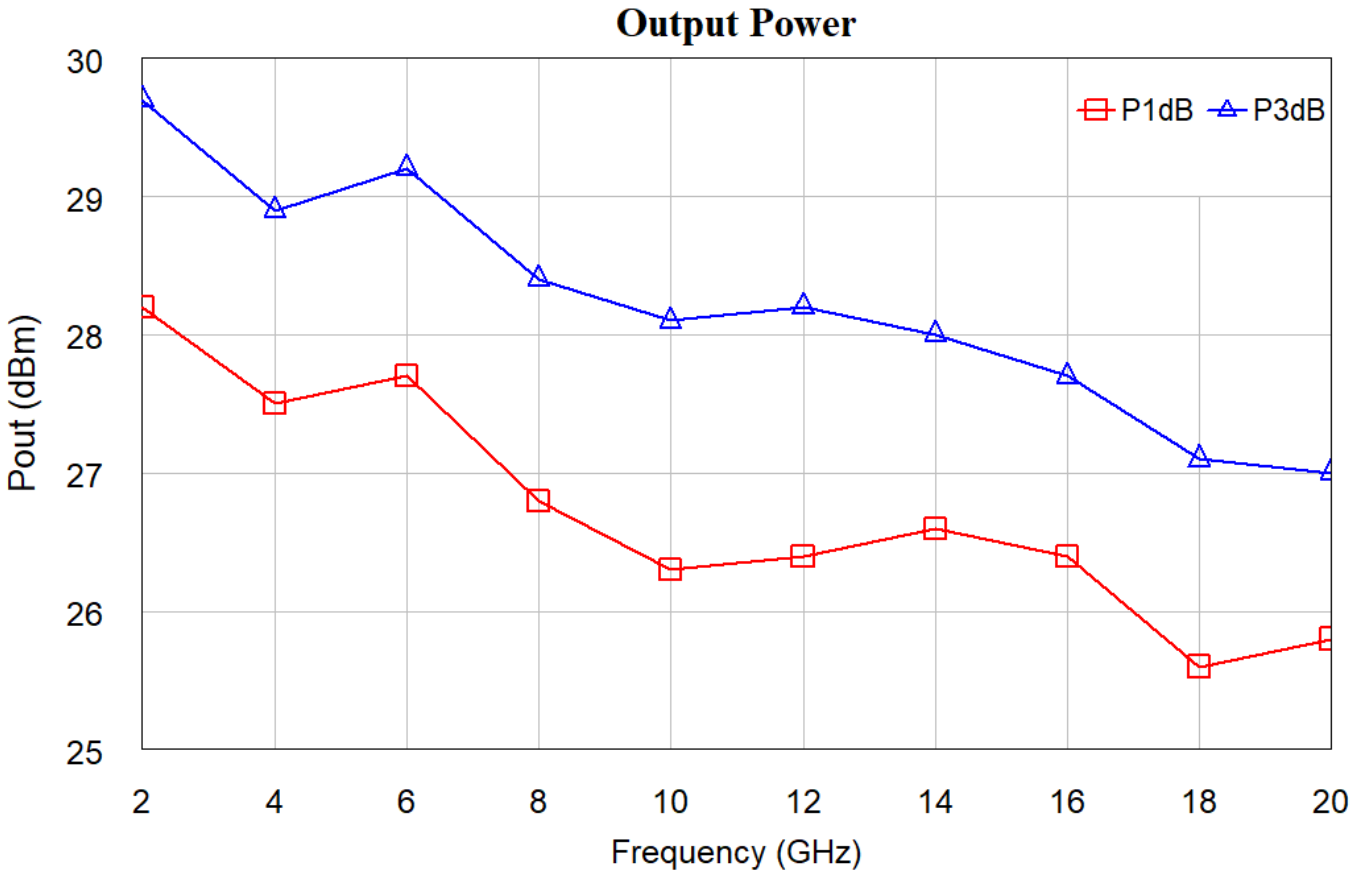
Parameter	Min.	Typ.	Max.	Units
DC Voltage			+15	Volts
RF Input Power			+24	dBm
Operating Case Temperature	-40		+85	°C
Storage Temperature	-55		+125	°C

MECHANICAL SPECIFICATIONS:

Parameter	Value	Units
Dimensions (L x W x H)	40.x 26 x 10.3	mm
Weight	32	gr
RF Connector, Input	SMA, Female	
RF Connector, Output	SMA, Female	
DC Connector	0.03” Solder-In Type Feedthrough	
Cooling	External Heatsink Required	
Mechanical Housing	Nickel Plated Aluminum	


Gain
32
31
30
29
28
Gain (dB)
2
4
6
8
10
12
14
16
18
20
Frequency (GHz)

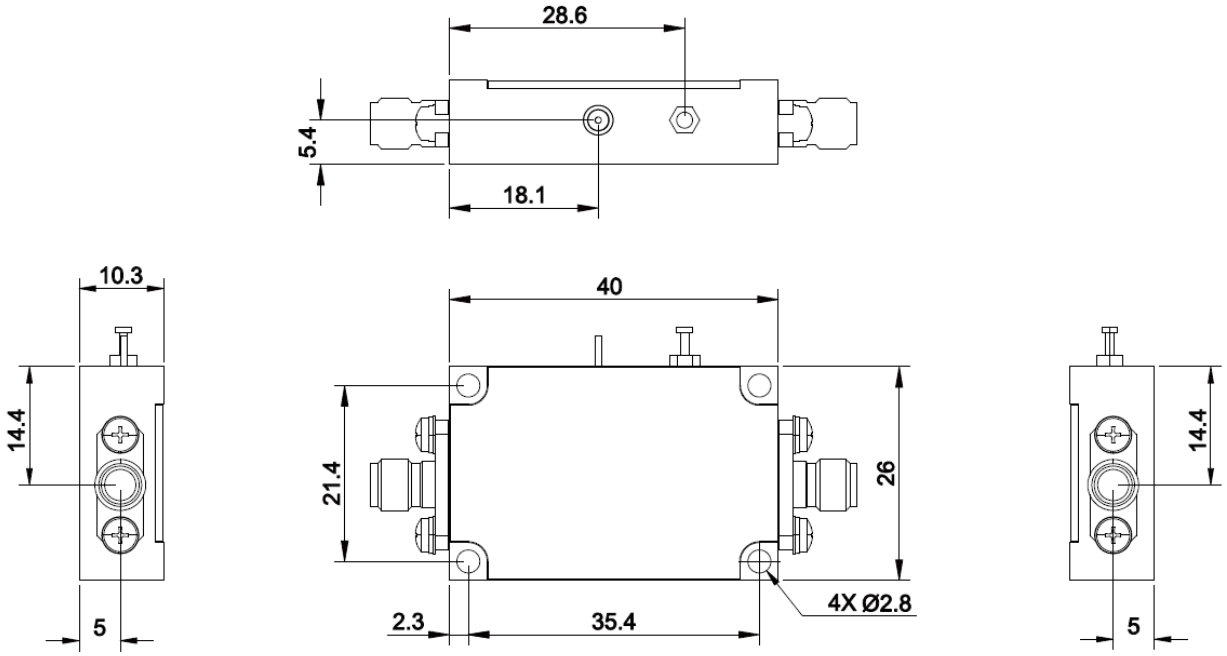

VSWR
2.5
2
1.5
1
VSWR_IN
VSWR_OUT
2
4
6
8
10
12
14
16
18
20
Frequency (GHz)


Output Power
P1dB
P3dB
Pout (dBm)
30
29
28
27
26
25
2
4
6
8
10
12
14
16
18
20
Frequency (GHz)

MECHANICAL OUTLINE:

- All dimensions are in mm

- Tolerances: +/- 0.2 mm



REVISION HISTORY:

Rev. No.	Date	Description
P1	18-Sept-2023	Preliminary Release
P2	12-Jan-2024	Added *Mechanical Outline*
A	15-Aug-2024	Original Release Updated *Electrical Specifications and Graphs*