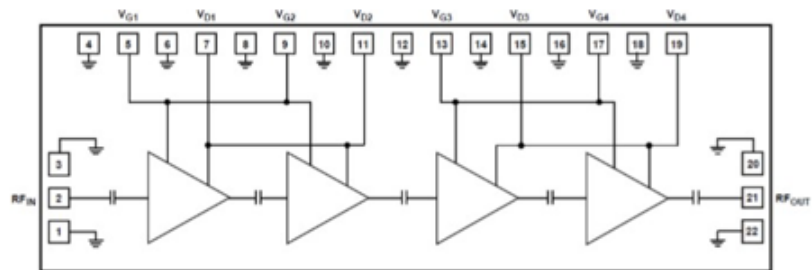


Features

- Frequency: 81-86GHz
- Gain: 24dB (typ.)
- Noise Figure: ≤ 6 dB
- P1dB: ≥ -10 dBm
- Output Standing Wave: 15dB (typ.)
- Input Standing Wave: 15dB (typ.)
- Die Size: 2.875 x 1.4 x 0.05 mm

Functional Block Diagram

Typical Applications

- Test Instrumentation
- Microwave Radio & VSAT
- Military & Space
- Telecom Infrastructure
- Fiber Optics

Electrical Specifications
T = -40°C ~ +85 °C

Parameter	Unit	Test Condition	Min	Typ	Max
Frequency Range	GHz	/	81.00	/	86.00
Max.gain	dB	/	22.00	24.50	27.00
IIP3 (@ PIN=-23dBm/tone)	dBm	tone separation: 10M~2G	-2	/	/
Input P1dB	dBm	/	-10.00	/	/
NF	dB	/	/	/	6
Gain Flatness	dB	81GHz~86GHz	/	/	2.00
Input Return Loss	dB	/	/	-15.00	-10.00
Output Return Loss	dB	/	/	-15.00	-10.00
Input port impedance	Ohm	Single-end	/	50.00	/
Output port impedance	Ohm	Single-end	/	50.00	/
Isolation between LNA input port and output port	dB	/	50.00	/	/
LNA_VD1/LNA_VD2	V	5% accuracy	1.90	2.00	2.10
LNA_VG1/LNA_VG2	V	Adjust the gate voltage to ensure that the sum of the currents of LNA_VD1 and LNA_VD2 is 22mA	-2	/	0
LNA_VD3/LNA_VD4	V	5% accuracy	3.80	4.00	4.20



LNA_VG3/LNA_VG4	V	Adjust the gate voltage to ensure that the sum of the currents of LNA_VD3 and LNA_VD4 is 44mA	-2.00	/	0.00
DC power Dissipation	W	/	/	/	0.22
maximum Junction Temperature (Meets million hour life)	°C	/	190		
★Operating Temperature Range	°C	/	-40	/	85
★Storage Temperature Range	°C	/	-65	/	150
θ_{jc}	°C/W	/	225		
★Lifetime at max. Tj	Years		≥10		
VD	V	/	/	/	4.5
VG	V	/	-3	/	0.2
Peak Reflow Temperature	°C	/	260		
★ESD Sensitivity , HBM	V		≥250		
ESD Sensitivity ,CDM	V		≥250		