

HXLNA9083G Low Noise Amplifier

1. Description

ID	Items	Specifications
1-1	Type	Low Noise Amplifier
1-2	Frequency Range	0.1GHz ~ 20GHz
1-3	Gain	22dB Typical
1-4	Gain Flatness	$\leq \pm 1\text{dB}$
1-5	Output 1dB Compression Point(P1dB)	$\geq 10\text{dBm}$ Typical
1-6	Saturated Output Power(Psat)	/
1-7	VSWR	≤ 1.8
1-8	Isolation	$\geq 30\text{dB}$
1-9	Spurious	$\leq -65\text{dBc}$
1-10	Output Third Order Intercept(OIP3)	25dBm Typical
1-11	Noise Figure	$\leq 2.5\text{dB}$ Typical
1-12	Impedance	50 Ω
1-13	Input/Output Connectors	SMA-F
1-14	Power Connectors	Feedthrough Capacitor
1-15	DC Power Supply	+12V/ $\leq 100\text{mA}$

2. Absolute Maximum Ratings

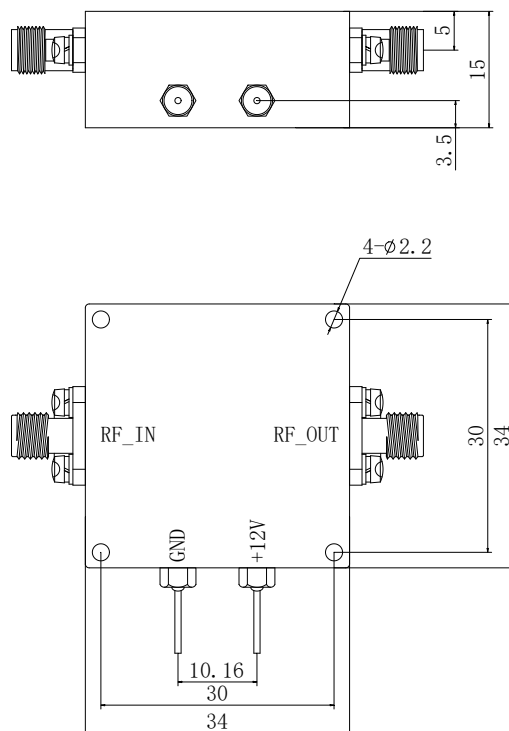
ID	Parameter	Rating
2-1	Operating Voltage	+12V ~+28V
2-2	RF Input Power	$\leq 15\text{dBm}$

3. Environmental Specifications

ID	Items	Specifications
3-1	Operational Temperature	-40 $^{\circ}\text{C}$ ~ +70 $^{\circ}\text{C}$
3-2	Storage Temperature	-55 $^{\circ}\text{C}$ ~ +85 $^{\circ}\text{C}$

4. Outline Drawing

ID	Items	Specifications
4-1	Outline Drawing	Unit: mm
Tolerances: $\pm 0.2\text{mm}$		



4-2	Material	Aluminum
4-3	Finish	Nickel Plated
4-4	Weight	40g

5. Note

5-1	Should be take the ESD protection during use .
5-2	Exceeding the rated input power limit may cause the product to burn out.
5-3	Avoid using in extreme temperature, humidity, or corrosive environments.
5-4	Good grounding can reduce EMI and RFI.
5-5	All specifications are subject to change without notice at any time.