

HXLNA4083G Low Noise Amplifier

1. Description

ID	Items	Specifications
1-1	Type	Low Noise Amplifier
1-2	Frequency Range	0.4GHz ~ 8GHz
1-3	Gain	$\geq 35\text{dB}$
1-4	Gain Flatness	$\leq \pm 1.5\text{dB}$
1-5	Output 1dB Compression Point(P1dB)	$\geq 20\text{dBm}$ @0.4GHz ~ 2.0GHz $\geq 18\text{dBm}$ @2.0GHz ~4.0GHz $\geq 15\text{dBm}$ @4.0GHz ~8.0GHz
1-6	Saturated Output Power(Psat)	/
1-7	VSWR	≤ 1.7
1-8	Isolation	$\geq 50\text{dB}$
1-9	Spurious	$\leq -60\text{dBc}$
1-10	Output Third Order Intercept(OIP3)	30dBm Typical
1-11	Noise Figure	$\leq 3.0\text{dB}$
1-12	Impedance	50Ω
1-13	Input/Output Connectors	SMA-F
1-14	Power Connectors	Feedthrough Capacitor
1-15	DC Power Supply	+12V/ $\leq 200\text{mA}$

2. Absolute Maximum Ratings

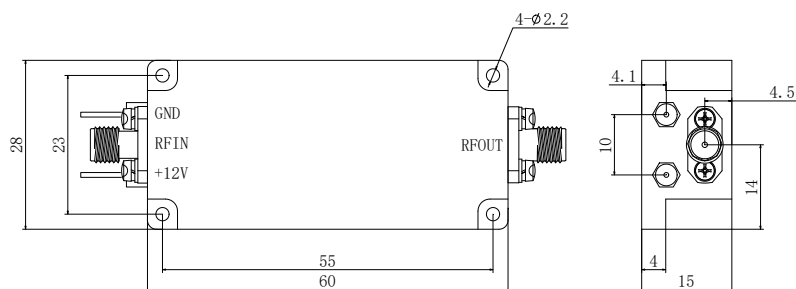
ID	Parameter	Rating
2-1	Operating Voltage	+10V ~ +12V
2-2	RF Input Power	$\leq 15\text{dBm}$

3. Environmental Specifications

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

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	60g

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.