

HXLNA1991G Low Noise Amplifier

1. Description

ID	Items	Specifications
1-1	Type	Low Noise Amplifier
1-2	Frequency Range	1GHz ~ 40GHz
1-3	Gain	30dB Typical
1-4	Gain Flatness	$\leq \pm 2.8\text{dB}$ Typical $\leq \pm 0.5\text{dB}$ Typical @ 1GHz Bandwidth
1-5	Output 1dB Compression Point(P1dB)	$\geq 16\text{dBm}$ Typical
1-6	Saturated Output Power(Psat)	/
1-7	VSWR	≤ 2.5
1-8	Isolation	$\geq 50\text{dB}$
1-9	Spurious	$\leq -60\text{dBc}$
1-10	Output Third Order Intercept(OIP3)	20dBm Typical
1-11	Noise Figure	$\leq 3.5\text{dB}$ Typical
1-12	Impedance	50 Ω
1-13	Input/Output Connectors	2.92mm-F
1-14	Control Connectors	Feedthrough Capacitor
1-15	Control	TTL(0V ~ 0.8V=OFF/3.3V ~ 5V=ON)
1-16	DC Power Supply	+12V/ $\leq 400\text{mA}$

2. Absolute Maximum Ratings

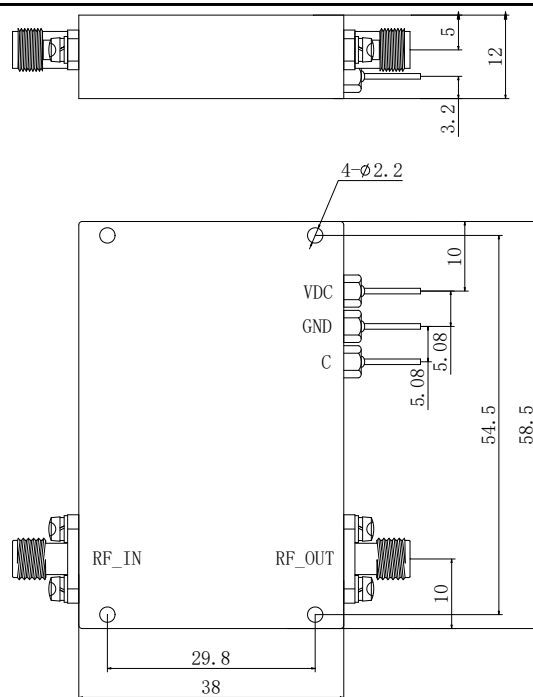
ID	Parameter	Rating
2-1	Operating Voltage	+10V ~ +28V
2-2	RF Input Power	$\leq 10\text{dBm}$

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	70g

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.