

Heritage Low Noise Amplifier Line Up

X-band LNA



Specification Table

Parameter	Unit	Major Performance
Operating Frequency Range	GHz	7.9 to 8.4
Usable Bandwidth	MHz	500
Gain	dB	45 min., 46 nom.
Gain Flatness over usable bandwidth	dBp-p	0.5 max.
Noise Figure	dB	1.3 max. at +23degC, 1.5 max. at +60degC
ICP3	dBm	+26.0 dBm min. at output power
Power Consumption	DC Power	1.5 W max. (secondary voltage : -5V / +5V)
RF Interface	RF Input RF Output	WR112 SMA Female connector
Secondary voltage Interface		MDM 9-pin male
Mass	g	385 g nominal.
Dimension	mm	Length = 186 mm Width = 76 mm Height = 87 mm
Temperature Range	degC	-10 min., +60 max.

Main Characteristics

- o Low noise figure and high gain performance
 - Noise figure: 1.5 dB max. at EOL at +60degC
(f=7.9GHz to 8.4GHz, Bandwidth = 500MHz)
 - Gain: 45 dB min.
(f=7.9GHz to 8.4GHz, Bandwidth = 500MHz)
- o X-band LNA consists of the input waveguide isolator and output coaxial isolator, 8GHz amp module, bias circuit.
- o All RF devices and matching circuit are installed in a hermetically sealed on package.
- o Self gain compensation over temperature using the PIN diode attenuator
- o We can provide LNA with dedicated EPC.