

Heritage Low Noise Amplifier Line Up

Ka-band LNA



Main Characteristics

- o Frequency range:
28.0GHz to 30GHz, Operational Bandwidth 1,500MHz
- o Low noise figure and high gain performance
Noise figure: 2.34 dB max. at +60degC and life
Gain: 45.0 dB nom.
- o Quad configuration which consists of 4 RF portions and 4 power supplies
- o The LNA module for Ka-band LNA is using NEC's super low noise PHEMTs for front 2 stages and GaAs MMIC's for output stage, all RF devices and matching circuit are installed in a hermetically sealed one package.
- o Self gain compensation over temperature using the MMIC's attenuator

Specification Table

Parameter	Unit	Major Performance
Operating Frequency Range	GHz	28.0 to 30.0
Usable Bandwidth	MHz	1500
Gain	dB	45 +/-0.5
Gain Flatness over usable bandwidth	dBp-p	0.9 max
Noise Figure	dB	2.0 typ at +23degC 2.4 max. at +60degC
ICP(C/3IM)	dBm	+18 min.
Power Consumption	W	1.5W max. (1RF portion and 1PS)
RF Interface		
RF Input		WR28 or WR34
RF Output		WR28 or WR34
BUS/CMD/TLM Interface		D-sub 15pins
Mass(Quad configuration)	kg	1.3
Dimension(Quad configuration)	mm	135*165*91
Temperature Range	degC	-10 min,+60max.