

Ka-Band Low Noise Amplifier



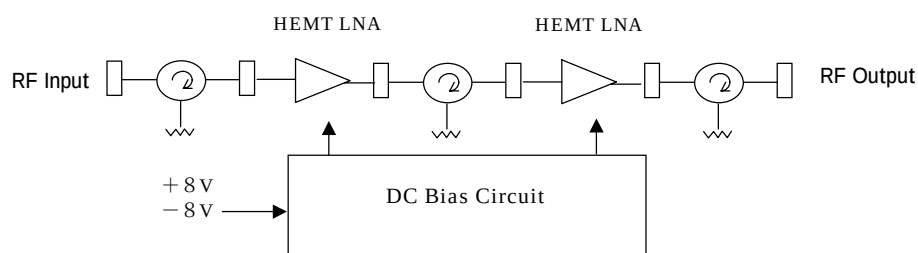
Features

- Ultra Low Noise using in-house HEMT
- WR-34 Waveguide Isolaters at input and output

Heritage

- N-STAR
- DRTS
- Optus-C1

Block Diagram



Performance Summary

<u>Items</u>	<u>Description</u>	<u>Remarks</u>
Operating Frequency Band (GHz)	30	
Noise Figure (dB)	2.0	at Ambient
Gain (dB)	34±0.7	
Gain Stability (dB)	± 1.0	Over temperature
Input Power (dBm)	-87 to -57	
Over Drive Input Level (dBm)	-28	
C/3IM (dBc)	≥ 109	Pout -44dBm/carrier
Phase Shift (deg.)	≤ 6	over input power range
Group Delay (ns p-p)	≤ 0.4	fo± 16.5MHz
DC Power Consumption (W)	0.8	
Dimension (mm)	175X69X81	
Mass (kg)	0.435	