

6000-18000MHz

Model Number: OC-LNA6-18K35DB

The model OC-LNA6-18K35DB is a broadband, low noise, high P_{-1dB} low noise amplifier operating between 6000 MHz and 18000 MHz and providing an ultra low noise figure with 3.0 dB. The employment of Hetero-Junction FET devices with good noise figure in manufacturing ensures this module exceptional noise figure performance. It is the key component of the electronic system.

FEATURES:

- Broadband;
- Low Noise Figure;
- High Output P_{-1dB};
- Small Size & Light Weight;
- Good Consistency;

ELECTRICAL SPECIFICATIONS @ +12.0VDC, 25°C, 50Ω

Parameter	Symbol	Min	Typ	Max	Units
Operating Frequency	BW	6000		18000	MHz
Small Signal Gain	Gain		35		dB
Small Signal Gain Flatness	Δ G _{ss}		±1.5	±2.0	dB
Output P _{-1dB}	OP _{-1dB}	15	17		dBm
Noise Figure	NF		2.5	3	dB
VSWR @ Input Port	IN VSWR		2.0:1	2.5:1	
VSWR @ Output Port	OUT VSWR		2.0:1	2.5:1	
In/Output Impedance	Impedance		50		Ω
Operating Voltage	VDC		+12		Volt
DC Current	IDD@+12V		80	120	mA

MECHANICAL SPECIFICATIONS

Parameter	Value	Units	Notes
Dimensions	30x15x10 [1.18x0.59x0.39]	mm [inch]	Maximum
Weight	30 [0.06]	g [lbs]	Maximum
RF Connectors Input	SMA, Female		
RF Connectors Output	SMA, Female		
DC Interface Connector	INSULATOR		

ENVIRONMENTAL CHARACTERISTICS (Design to Meet)

Parameter	Minimum	Typical	Maximum	Units	Notes
Operating Temperature	-20		+85	°C	
Non-operating Temperature	-40		85	°C	Storage
Relative Humidity (non-condensing)			95	%	

Absolute Maximum Rating

Input RF drive level without damage	+15 dBm
DC Voltage	+15 V

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OUTLINE DRAWING (All dimensions in mm [inch])

