



**Blue Tops RF Modules > Low Noise Distribution Amplifier (4-Way)**

**Features:**

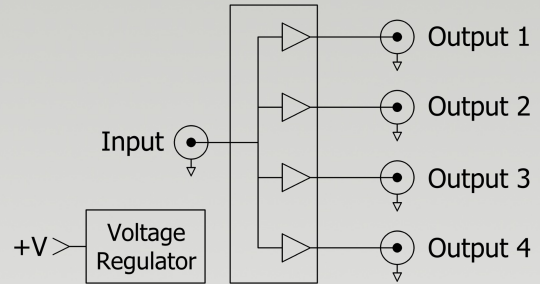
- 5 MHz and 10 MHz Standard
- Ultra Low Phase Noise
- Four Isolated Outputs
- Output Levels to +16 dBm
- Integral Voltage Regulator

**Applications:**

- Frequency Distribution
- ULN Signal Distribution
- RF Systems Component

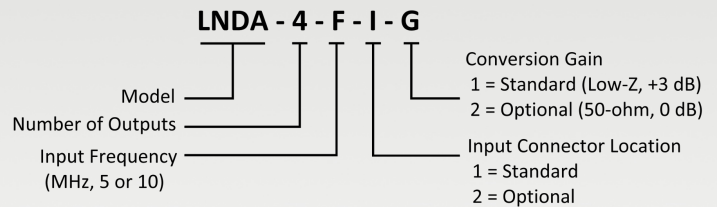
**Description:**

The LNDA-4 is a high performance 4-way frequency distribution amplifier designed to distribute HF ULN crystal oscillator or other low phase noise source signals and features a phase noise floor as low as -178 dBc/Hz intrinsic at the 100 kHz offset. The distribution amplifier operates on +15 VDC and includes a low noise voltage regulator for excellent power supply line rejection.



Electrical Specifications	
Frequency	5 or 10 MHz
Input Signal Level	+10 to +13 dBm
Conversion Gain	
- Standard (Low Source impedance)	+3 ±1.5 dB
- Optional (50 ohm impedance)	0 ±1.5 dB
Phase Noise (Input Referred)	
(5 MHz, +13 dBm):	10 Hz to -150 dBc/Hz
Noise Floor, 100 kHz	to -178 dBc/Hz
Harmonics	≤ -30 dBc
Input VSWR	≤ 2.0:1
Port-to-Port isolation	≥ 50 dB
Supply Voltage	+15 VDC ±2%
Current Draw, Max	≤ 150 mA
Mechanical	
Dimensions	3" x 2" x 0.8"
DC Supply	Feed Thru Capacitors
Ground	Turret Terminal
RF Input / Output	SMA female *
* SMA female connectors are used unless otherwise specified. Other options include SMA male, right angle SMAs, BNC male or female and others. Contact factory for custom configurations.	

**Ordering Information:**



Standard P/N	Number of Outputs	Input Frequency	Input Connector Location	Input Level	Output Level (each port)	Input Referred Residual Phase Noise (100 kHz offset)
LNDA-4-5-1-1	4	5 MHz	Standard	+13 dBm, typ	+16 dBm (Low-Z)	≤ -178 dBc/Hz
LNDA-4-5-1-2	4	5 MHz	Standard	+13 dBm, typ	+13 dBm (50 ohm)	≤ -178 dBc/Hz
LNDA-4-10-1-1	4	10 MHz	Standard	+13 dBm, typ	+16 dBm (Low-Z)	≤ -176 dBc/Hz
LNDA-4-10-1-2	4	10 MHz	Standard	+13 dBm, typ	+13 dBm (50 ohm)	≤ -176 dBc/Hz
LNDA-4-10-2-1	4	10 MHz	Optional	+13 dBm, typ	+16 dBm (Low-Z)	≤ -176 dBc/Hz
LNDA-4-10-2-2	4	10 MHz	Optional	+13 dBm, typ	+13 dBm (50 ohm)	≤ -176 dBc/Hz



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