



**Blue Tops RF Modules > Low Noise Distribution Amplifier (3-Way)**

**Features:**

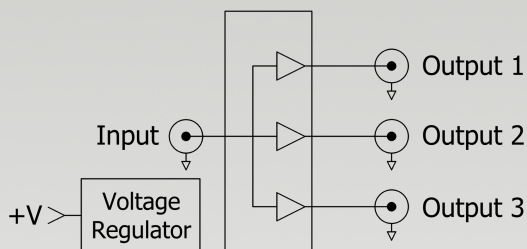
- 5 MHz and 10 MHz Standard
- Ultra Low Phase Noise
- Three Isolated Outputs
- Output Levels to +16 dBm
- Integral Voltage Regulator

**Applications:**

- Frequency Distribution
- ULN Signal Distribution
- RF Systems Component

**Description:**

The LNDA-3 is a high performance 3-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**

<b>Frequency</b>	5 or 10 MHz
<b>Input Signal Level</b>	+10 to +13 dBm
<b>Conversion Gain</b>	
- Standard (Low Source impedance)	+3 ±1.5 dB
- Optional (50 ohm impedance)	0 ±1.5 dB
<b>Phase Noise (Input Referred)</b>	
(5 MHz, +13 dBm):	<b>10 Hz</b> to -150 dBc/Hz
<b>Noise Floor, 100 kHz</b>	to -178 dBc/Hz
<b>Harmonics</b>	≤ -30 dBc
<b>Input VSWR</b>	≤ 2.0:1
<b>Port-to-Port isolation</b>	≥ 50 dB
<b>Supply Voltage</b>	+15 VDC ±2%
<b>Current Draw, Max</b>	≤ 100 mA

**Mechanical**

<b>Dimensions</b>	2.55" x 2.55" x 0.8"
<b>DC Supply</b>	Feed Thru Capacitors
<b>Ground</b>	Turret Terminal
<b>RF Input / Output</b>	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 Level	Output Level (each port)	Input Referred Residual Phase Noise (100 kHz offset)
LNDA-3-5-1	3	5 MHz	+13 dBm, typ	+16 dBm (Low-Z)	≤ -178 dBc/Hz
LNDA-3-5-2	3	5 MHz	+13 dBm, typ	+13 dBm (50 ohm)	≤ -178 dBc/Hz
LNDA-3-10-1	3	10 MHz	+13 dBm, typ	+16 dBm (Low-Z)	≤ -176 dBc/Hz
LNDA-3-10-2	3	10 MHz	+13 dBm, typ	+13 dBm (50 ohm)	≤ -176 dBc/Hz



**Blue Tops RF Modules > Low Noise Distribution Amplifier (3-Way)**

