

**LBA2030 L BAND AMPLIFIER / LNB POWER INSERTER****LBA2030 FEATURES**

The LBA2030 is an L band amplifier that is designed to amplify and level the L band range of 950 to 2250 MHz that is used in Direct Broadcast Satellite reception applications. The full coverage allows use with installations incorporating 'stacked' type LNBs - one polarity output from 950 to 1450 MHz and the other polarity output over a higher 500 MHz segment such as 1550 to 2050 MHz. or 1650 – 2150 MHz.

The LBA2030 has a built in LNB power inserter that will supply 18 VDC to the LNB input connector for powering the LNB. LNB power is not passed through from the receiver (either output).

The LBA2030 provides two output ports, one where each transponder is leveled to approximately -20 dBm and one where each transponder is leveled to -30 dBm. These levels are provided when the input contains a full set of 32 transponders. If there are fewer transponders present, the output of an individual transponder will be somewhat higher but the output will provide the same total power when all transponders in the input range are summed.

The LBA2030 requires an input level of approximately -50 dBm (each of 32 transponders) in order to AGC the outputs to the -20 dBm and -30 dBm levels. Input levels below -50 dBm will cause the output levels to drop by a corresponding amount.

The -20 dBm output provides plenty of signal level for situations where this output will be split through several layers of passive splitters to feed multiple receivers.

The -30 dBm output provides the ideal level for connection to the Drake LBS2250 ten output switch. The LBS2250 has a 5 dB level drop from input to each transcoder output, providing a healthy -35 dBm to each transcoder or receiver.

The LBA 2030 provides a gentle slope compensation to compensate for increased coaxial cable losses in the system at higher frequencies. The rated output levels are specified for the high end of the frequency range and drop by 4 to 5 dB at 950 MHz.

 is a trademark of R.L. Drake LLC  
 is a registered trademark of R.L. Drake LLC

**LBA2030 L BAND AMPLIFIER / LNB POWER INSERTER****SPECIFICATIONS****Electrical**

Operating Input Level:	-60 dBm to -25 dBm (each of 32 equal power transponders)
Maximum Gain with inputs at or below AGC threshold levels:	30 dB (measured at the - 20 dBm output port)
AGC:	Over input of -50 to -25 dBm (32 transponders)
Flatness over any 27 MHz band segment:	+/- 0.2 dB
Input Return Loss:	10 dB nominal
Output Return Loss:	12 dB nominal
Power Requirements:	24 VDC nominal at 500 mA maximum supplied by included AC adapter supply. (assumes LNB powering of 350 mA maximum.)
AC Adapter power:	120 V AC, 60 Hz

**General**

Dimensions:	
Weight:	5 1/8 (130 mm) 5 1/2 (143 mm) including connectors X 3 1/4 (80 mm) X 1 1/16 (27 mm)
Operating temperature range:	7.1 oz (amp alone) 0 deg C to + 50 deg C ambient, indoors.

**SERVICE INFORMATION**

You may contact the R.L. DRAKE Service Department for additional information or assistance by calling +1 (937) 746-6990, Monday through Friday, between 8:00 A.M. and 4:00 P.M. Eastern Time, except on holidays.

You may also contact the R.L. DRAKE Service Department by E-mail at the following address:  
TechSupport@rldrake.com  
or by Telefax: +1 (937) 806-1576.

**THREE YEAR LIMITED WARRANTY**

R.L. DRAKE LLC warrants to the original purchaser this product shall be free from defects in material or workmanship for three (3) years from the date of original purchase. During the warranty period R.L. DRAKE LLC or an authorized Drake service facility will provide, free of charge, both parts and labor necessary to correct defects in material and workmanship. At its option, R.L. DRAKE LLC may replace a defective unit.

- To obtain such warranty service, the original purchaser must:

- (1) Retain invoice or original proof of purchase to establish the start of the warranty period.
- (2) Notify R.L. DRAKE LLC or the nearest authorized service facility, as soon as possible after discovery of a possible defect, of:
  - (a) the model and serial number,
  - (b) the identity of the seller and the approximate date of purchase; and
  - (c) A detailed description of the problem, including details on the electrical connection to associated equipment and the list of such equipment.
- (3) Deliver the product to R.L. DRAKE LLC or the nearest authorized service facility, or ship the same in its original container or equivalent, fully insured and shipping charges prepaid.

-Correct maintenance, repair, and use are necessary to obtain proper performance from this product. Therefore carefully read the Instruction Manual. This warranty does not apply to any defect that R.L. DRAKE LLC determines is due to:

- (1) Improper maintenance or repair, including the installation of parts or accessories that do not conform to the quality and specifications of the original parts.
  - (2) Misuse, abuse, neglect or improper installation.
  - (3) Accidental or intentional damage.
- All implied warranties, if any, including warranties of merchantability and fitness for a particular purpose, terminate three (3) years from the date of the original purchase.

- The foregoing constitutes R.L. DRAKE LLC'S entire obligation with respect to this product, and the original purchaser shall have no other remedy and no claim for incidental or consequential damages, losses or expenses. Some states do not allow limitations on how long an implied warranty lasts or do not allow the exclusions or limitation of incidental or consequential damages, so the above limitation and exclusion may not apply to you.  
- This warranty gives you specific legal rights and you may also have other rights which vary from state to state. This warranty shall be construed under the laws of Ohio.