

### RADIATED EMISSIONS / IMMUNITY

While the use of biconical and log periodic antennas in emission and immunity testing represented significant timesavings over the use of tuned dipoles, our newest antennas, BICOGS and Superlogs, eliminate the need for multiple antennas to perform tests from 25 MHz to almost 3.0 GHz.

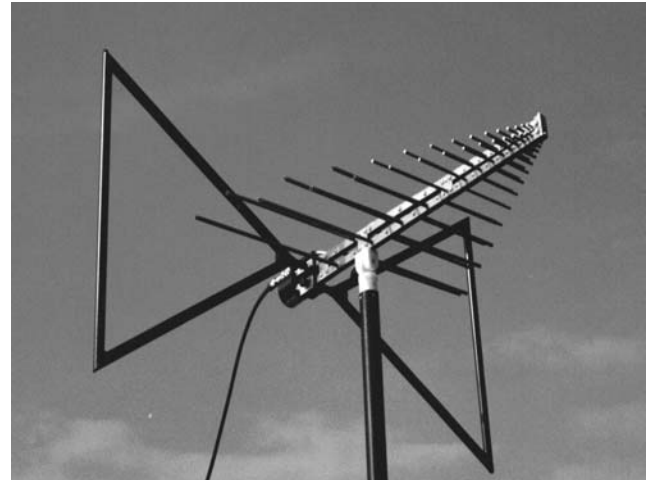
Four models (**LPB-2513**, **LPB-2520**, **LPB-2727**, and **LPB-3030**) are available to perform immunity testing per IEC 1000-4-3 SAE, SAE, and MIL-STD or emission testing per FCC-15 and 18, EN55022, SAE, MIL-STD, or ANSIC63-4. These antennas are also ideally suited for other wideband test applications.

The compact size of these SUPERLOGS and BICOGS reduces measurement errors and allows operation in small shielded rooms.

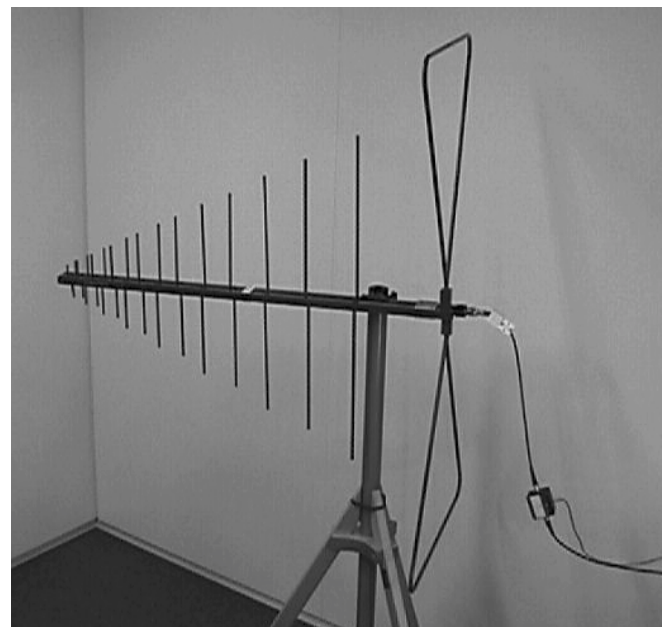
Performance at the low end is improved by increasing the size of the elements, capacitive loading of the elements, and a combination of other techniques. **ARA TECH** has supplied several oversized antennas for special applications. However, our four standard models are optimized for size versus performance for use in an EMC test laboratory and small shielded rooms and compact chambers.

These antennas are supplied with an insulated mast and adjustable polarization. The rear elements are removable for compact storage. No tools are required to reassemble these antennas.

The **LPB-2513** and **LPB-2520** are constructed using corrosion-resistant materials with a gold iridite finish. The **LPB-2727** forms part of a complete EMC test set (Model # **PTS-1000/E**, see page 68) intended for pre-compliance testing according to EMC directives.



**LPB-2520**



**LPB-2727**

### SPECIFICATIONS

	LPB-2513	LPB-2520	LPB-2727	LPB-3030
<b>FREQUENCY (MHz)</b>	25-1300	25-2000	30-1050	30-3000
<b>IMPEDANCE (OHM)</b>	50	50	50	50
<b>POWER (W)</b>	1000 CW	1000 CW	30	250
<b>SIZE (L x W x H)</b>	38" x 51" x 28"	38" x 51" x 28"	49" x 50" x 21"	48" x 60" x 24"
<b>POLARIZATION</b>	Linear, adj.	Linear, adj.	Linear, adj.	Linear, adj.
<b>VSWR*</b>	2:1 avg.	2:1 avg.	2:1	1.5:1
<b>CONNECTOR</b>	N Female	N Female	N Female	N Female
<b>WEIGHT ( LBS.)</b>	10	10	5	6

\* Log periodic section of the antenna

### TYPICAL ANTENNA FACTORS FOR LPB ANTENNAS

	LPB-2513	LPB-2520	LPB-2727	LPB-3030
<b>FREQUENCY (MHz)</b>				
25	18.9	17.9		12.8
30	16.9	17.5	19.9	11.0
40	16.3	16.3	15.5	12.3
50	14.2	14.0	10.9	11.9
60	12.5	11.0	7.9	11.2
70	12.4	7.5	6.4	7.5
80	11.7	7.8	6.1	7.4
100	11.9	10.0	9.4	11.7
150	9.5	8.9	9.8	7.3
200	10.7	9.5	9.1	10.5
250	11.5	12.1	11.5	12.4
300	14.1	13.4	13.0	13.5
400	15.7	14.4	15.6	15.6
500	16.5	15.9	17.0	17.1
700	20.4	18.9	20.2	19.4
900	21.1	20.9	22.6	22.4
1000	22.7	21.7	24.1	22.5
1100	22.7	22.1		24.1
1300	24.1	23.3		25.8
1500		24.7		26.8
1700		25.6		27.5
2000		27.5		28.5
2500				32.3
3000				34.2