

LARSEN LOW PROFILE ANTENNAS

Low Profile (LP) Antennas

The Larsen line of NMO mount, low profile antennas come in two styles - NMO and direct mount. Low profile VHF antennas utilize an NMO mount. They are 3.75" high and 4.5" in diameter.

The 450 MHz and 800 MHz low profiles are available with either an NMO or direct mount. NMO mount LP antennas are 1.5" tall and 4.5" in diameter while the direct mount is 1.25" tall and 5.25" in diameter. These antennas offer true unity (2 dBi) performance. They are as easy to install and remove as any standard mobile antenna - clean and simple.

The radiators are housed in a durable, Macroblend™ resin polymer plastic shell, resistant to UV and chemical deterioration. A special neoprene foam gasket on the NMO mounts provides for a weatherproof installation, not only around the perimeter of the antenna, but directly at the point of the mount as well.

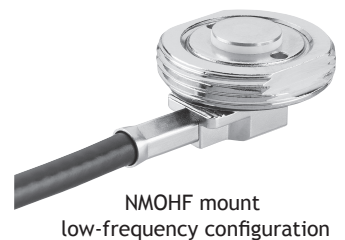
Our direct feed, permanent mount low profile antennas offer a unique design of the base plate providing ground plane enhancement for improved performance. They feature printed circuit technology and a UV and chemical resistant Makroblend™ resin polymer housing. LP direct feed antennas are ideal for security sensitive applications requiring a discreet profile and permanent mounting.

Low Profile Transit (LPT) Style Antennas

Larsen offers a family of transit-style antennas for both low- and high-frequency applications. The LPT825/19NMOHF is a unique design covering 800/Cellular/GSM/DCS/PCS and 2.4 GHz frequency bands all in one compact radome. For optimal high-frequency matching, Larsen high-frequency and multi-band antennas are designed with an industry-unique coax-type connection which plugs into the Larsen NMOHF mount in its high-frequency configuration (i.e. center pin and insulator pulled out). The LPT2400 may be used with or without a groundplane. All LPT's are available in black or white (minimum order quantities apply to the white versions).

Radome shells are made of Makroblend™, an advanced resin polymer plastic, resistant to chemical and UV deterioration which surpasses both Lexan and PVC products.

All LPT antennas are shipped with Larsen's SuperSeal gasket. With an integrated O-ring and an outer base seal, SuperSeal gaskets provide a dual seal between the vehicle and the antenna, thus reducing rust and corrosion from leaks. The base sealing surface is over ¼" wide, providing a superior seal designed to conform to vehicle surface curvatures.



LARSEN LOW PROFILE ANTENNAS

NMO MOUNT LOW PROFILE VHF ANTENNAS

MODEL	LP152NMO	LP156NMO	LP158NMO	LP160NMO	LP162NMO
FREQUENCY (MHz)	151.02-152.98	154.42-156.58	156.38-158.62	158.33-160.67	160.29-162.71
BANDWIDTH@1.5:1	1.5%	1.5%	1.5%	1.5%	1.5%
BANDWIDTH @2:1	2.5%	2.5%	2.5%	2.5%	2.5%
GAIN	UNITY (2 dBi)	UNITY (2 dBi)	UNITY (2 dBi)	UNITY (2 dBi)	UNITY (2 dBi)
MAX POWER	60 WATTS	60 WATTS	60 WATTS	60 WATTS	60 WATTS
HEIGHT	3 3/4"	3 3/4"	3 3/4"	3 3/4"	3 3/4"
DIAMETER	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"



NMO MOUNT LOW PROFILE VHF ANTENNAS (CONTINUED)

MODEL	LP164NMO	LP167NMO	LP169NMO	LP171NMO	LP174NMO
FREQUENCY (MHz)	162.75-165.25	165.21-167.79	167.68-170.32	170.16-172.84	172.14-174.86
BANDWIDTH@1.5:1	1.5%	1.5%	1.5%	1.5%	1.5%
BANDWIDTH @2:1	2.5%	2.5%	2.5%	2.5%	2.5%
GAIN	UNITY (2 dBi)	UNITY (2 dBi)	UNITY (2 dBi)	UNITY (2 dBi)	UNITY (2 dBi)
MAX POWER	60 WATTS	60 WATTS	60 WATTS	60 WATTS	60 WATTS
HEIGHT	3 3/4"	3 3/4"	3 3/4"	3 3/4"	3 3/4"
DIAMETER	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"

NMO MOUNT LOW PROFILE ANTENNAS

MODEL	LP406NMO	LP420NMO	LP450NMO	LP470NMO	LP490NMO	LP800NMO
FREQUENCY (MHz)	406-420	416-430	450-470	470-490	490-512	806-960
BANDWIDTH@1.5:1	3%	3%	3%	3%	3%	8.5%
BANDWIDTH @2:1	5%	5%	5%	5%	5%	10%
GAIN	UNITY (2 dBi)	UNITY (2 dBi)	UNITY (2 dBi)	UNITY (2 dBi)	UNITY (2 dBi)	UNITY (2 dBi)
MAX POWER	100 WATTS	100 WATTS	100 WATTS	100 WATTS	100 WATTS	100 WATTS
HEIGHT	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"
DIAMETER	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"



DIRECT FEED LOW PROFILE ANTENNAS

MODEL	LP450	LP800
FREQUENCY (MHz)	450-470	806-960
BANDWIDTH@1.5:1	3%	8.5%
BANDWIDTH @2:1	5%	10%
GAIN	UNITY (2 dBi)	UNITY (2 dBi)
MAX POWER	100 WATTS	100 WATTS
HEIGHT	1 1/4"	1 1/4"
DIAMETER	5 1/4"	5 1/4"



NMO MOUNT TRANSIT STYLE ANTENNAS

MODEL	LPT450NMO	LPT700/800NMO	LPT800/900NMO	LPT825/19NMOHF**	LPT2400NMOHF**
FREQUENCY (MHz)	450-470	740-866	806-960	806-960/1710-1990/2400	2400-2500
BANDWIDTH @1.5:1	3%	8.5%	8.5%	N/A	N/A
BANDWIDTH @2:1	5%	10%	10%	N/A	N/A
GAIN	UNITY (2 dBi)	UNITY (2 dBi)	UNITY (2 dBi)	3 dBi/4 dBi / 3 dBi	1 dBi without ground plane
MAX POWER	100 WATTS	100 WATTS	100 WATTS	10 WATTS	10 WATTS
HEIGHT	4 1/2"	3 1/2 "	3 1/2"	3 1/2"	3 1/2"
BASE DIAMETER	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"



NOTE: LP and LPT antennas are available in white UV and chemical resistant Makroblend. To order white add a "W" to the end of the model number. Minimum order quantities apply to white radomes. Please contact factory for more information.

** This antenna requires an NMOHF-style mount.