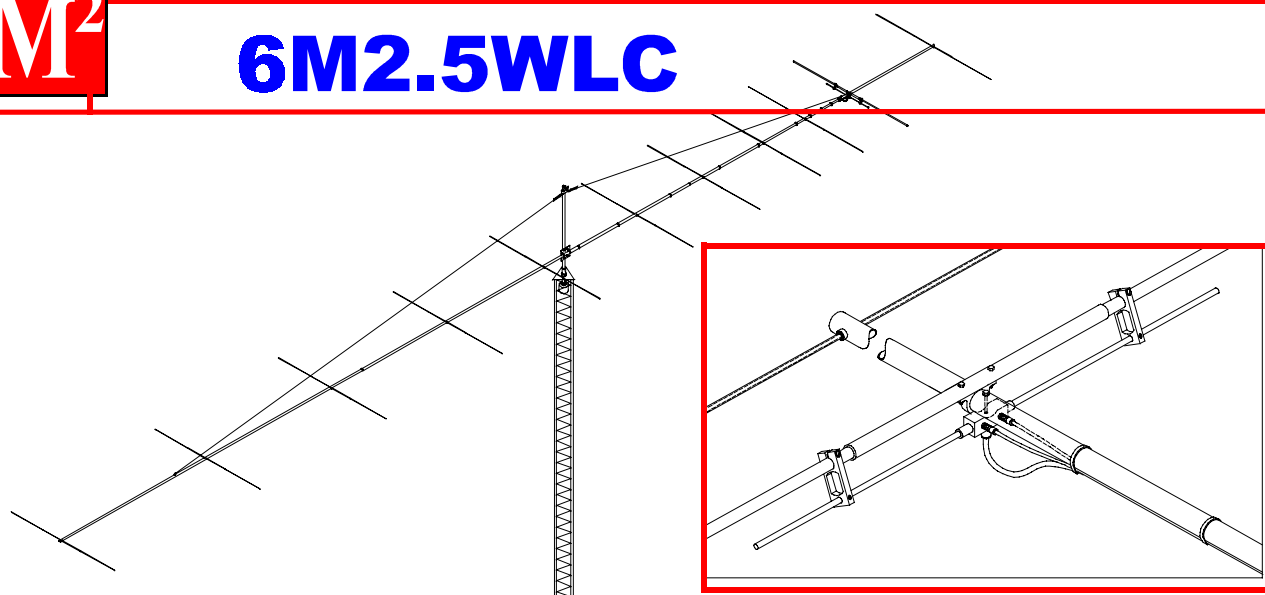




6M2.5WLC



SPECIFICATIONS

MODEL NUMBER	6M2.5WLC
FREQUENCY	49.9-50.3 MHz
USABLE FREQUENCY RANGE	49.6 TO 50.4 MHz
GAIN OVER DIPOLE	12.6 dBd
FRONT TO BACK	>23 dB
BEAMWIDTH , DEGREES	E=33 / H=39
FIRST SIDELobe	-18 dB
STACKING (HORIZ POL)	30' W, 27' H
FEED IMPEDANCE	50 OHM
VSWR	1.2:1
INPUT CONNECTOR	'N' FEMALE (SO-239 AVAIL.)
BALUN	HALF WAVE 4:1 SUPPLIED
POWER HANDLING	1500 WATTS
ELEMENT TYPE	1/4" ROD W 3/8" CENTER SLEEVE
BOOM LENGTH / DIA / SUPPORT	50' 2" / 2" & 2-1/2" / OVERHEAD DACRON
WIND AREA / SURVIVAL	5.9 SQ. FT. / 100 MPH
WEIGHT/SHIPPING WT.	38 LBS / 47 LBS

FEATURES

Countless hours of computer optimization, range confirmation and on the air testing have resulted in a truly remarkable antenna. The 6M2.5WLC is capable of producing moon echoes when pointed at rising or setting moon and running the legal power limit. If you can hear your own moon echoes over a one half million mile path, just think what it could do for your signal on long haul tropo, meteor scatter or just an ordinary E or F2 opening. And for the adventurous, imagine what four would do. Some people already have...how about you? VE6JW, OH2BC, K6QXY AND W6JKV, working with 4 x 6M25WL's, have worked single Yagi stations on EME. K6QXY has been heard by 3 element Yagis on EME!

Recently, using an excellent new Yagi optimization program, the original element lengths have been tweaked for **a bit more gain (0.32db)** and improved front to back (now **over 23 dB**). With all this, the gain as noted on the **revised** Specification sheet will actually go down to 12.6 dBd. (The older program had minor gain errors.) We try to be accurate!

The driven element is now a 3/4" diameter tube for improved efficiency and bandwidth, fed by a 'T' match with adjustable shorting bars. Stainless screws lock the joints together. The "T" match block is CNC-machined and internal connections are sealed with a space-age silicone gel with dielectric strength nearly 4 times greater than air. All three connectors feature 'O' ring seals. The balun cable features double seals; one at the cable and one inside the connector where it mates with the female. This match block configuration was developed at M2 for shipboard ATS satellite use and is now used on all our amateur Yagis.

The parasitic element design meets the stringent requirement for extreme durability consistent with minimal windload and visibility. Elements are a solid rod of 1/4" 6061-T6 aluminum rod with a 3/8" x 36" center reinforcing sleeve, double crimp-locked to the rod. The elements pass through the rugged boom and are insulated with special UV stabilized button insulators designed to dampen vibrations and prolong element life. Elements are locked in place with stainless steel keepers. Thousands of these elements are currently in service in large commercial arrays with ZERO failures to date!