



DIRECTIVE SYSTEMS

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2450 MHz Loop Yagi Model 1245LYA

SPECIFICATIONS

Frequency range:	2.40 to 2.49 GHz
Number of elements:	45
Boom length:	81 inches
Boom diameter:	0.5 inch
Mast diameter:	1 1/2 inch max
Weight:	3 pounds (assembled)
Connector:	Type-N female UG-58/U
Gain:	\approx 20 dBi
3 dB Beamwidth (E plane):	\approx 16 degrees \geq 20 dB
F/B ratio:	400 watts average
Maximum Power:	13 inches vertical
Stacking distance:	15 inches horizontal
Polarization:	Horizontal (Vertical with optional bracket)

ASSEMBLY INSTRUCTIONS

1. Unpack the antenna and locate the hardware package. The antennas are shipped in two sections, in which case the boom is broken between directors 25 & 26. Remove D24 and D25 from the rear boom section and slide the two boom pieces together to the alignment marks on the boom. Align the elements. Replace D24 & D25 and retighten.
- 2) Attach the boom to Mast plate to the boom with the hardware provided. Install the U-Bolt so that the mast comes up directly under the boom.
- 3) Attach the feedline and tape it to the bottom of the boom. The connector should be sealed with silicone RTV or equivalent.
- 4) Straighten any mis aligned elements and re-tighten if necessary.
- 5) The antenna SWR has been adjusted at the factory for less than 1.2:1 mismatch at resonance. Additional tweaking can be accomplished by changing the shape of the driven element slightly and by adjusting the distance between the driven element and R1 and D1. R1 is the reflector closest to the driven element.
- 6) If antennas are to be stacked, see " Instructions for Stacking Loop Yagis."