

# ANTENNA KIT

VHF: 138-174 MHz



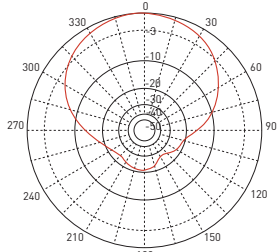
6 dB gain antenna



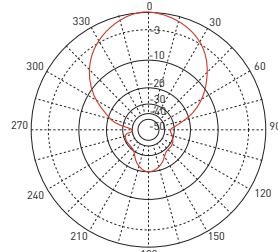
9.5 dB gain antenna

Dataradio makes system installation easier with our VHF antenna kit. The kit includes a premium quality Yagi antenna, mounting bracket, surge protector, grounding kit, cable ties, weather kit, and jumper cable. LMR-400 feedline for the VHF antenna kit is available in 25' or 55' lengths (sold separately).

Each antenna is made from a high strength 6061-T6 welded aluminum antenna to provide corrosion resistance, giving you an antenna you can depend on for consistent communication even in the harshest environments.

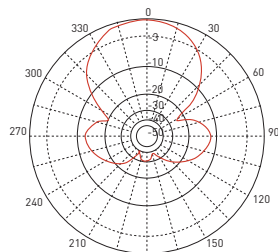


HORIZONTAL PATTERN FOR VERTICAL POLARIZATION

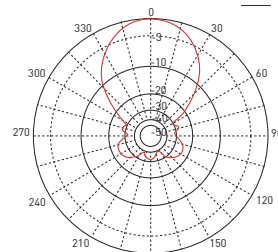


HORIZONTAL PATTERN FOR HORIZONTAL POLARIZATION

### 6.5 dB antenna polarization



HORIZONTAL PATTERN FOR VERTICAL POLARIZATION



HORIZONTAL PATTERN FOR HORIZONTAL POLARIZATION

### 9.5 dB antenna polarization

Dataradio Part Number	250-0211-X07	250-0211-X10
Frequency Range	138-174 MHz	
Bandwidth VSWR 1.5	4% of Range	
Front to Back Ratio	15 dB	17 dB
Horizontal Beamwidth at half power points	65 deg	65 deg
Vertical Beamwidth at half power points	55 deg	47 deg
Power Rating	200 watts	300 watts
Lightning Protection	DC ground	
Termination	N Male (SMA with jumper cable converter)	
Height	66" (1829 mm)	90" (2510 mm)
Width @ 403 MHz	40" (1016 mm)	42" (1066mm)
Weight	3 lbs (1.4 kg)	6.5 lbs (2.95kg)
Rated Wind Velocity	160 mph (259 kph)	
Lateral Thrust @ 100 mph wind velocity	48 lbs (22 kg)	82 lbs (36.9 kg)
Projected Area	1.4 ft sq (.13 msq)	2.1 ft sq (.195 msq)
Polyphaser Model	B50LNC-2 (bulkhead mount)	
Surge Protection VSWR	1.1:1	
Surge Protection Impedance	50 Ω	
Surge Protection Freq. Range	125 - 1000 MHz	
Surge Protection Connectivity	Type N Female	
LMR Cable Attenuation	3.9 dB/100 ft (12.8 dB/100m)	
LMR Cable Connectivity	Type N - Male	

Note: Mounting clamp is supplied to mount the antenna on a 1.50" - 3.00" diameter mast; the clamp allows for vertical or horizontal positioning.