

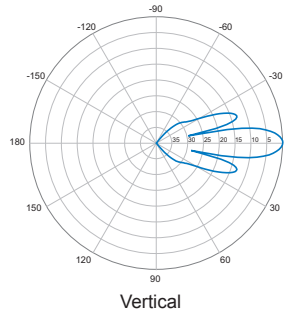
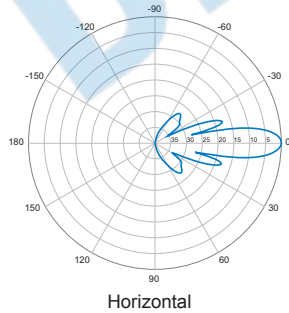
## R-18A39E-C

V-Pol | Repeater Donor Reflector Antenna | 11° | 24.0 dBi

The R-18A39E-C antenna is designed specifically to be used as a repeater donor antenna in the 1850 to 1990 MHz PCS band. The antenna achieves 24 dBi gain while providing high sidelobe suppression at 90 degrees and in the entire back hemisphere. In the important vertical plane, where high isolation is required to reduce coupling to the server antenna, the sidelobes are typically suppressed more than 50 dB below the beam peak.



Electrical Characteristics	
Frequency band	1850-1990 MHz
Polarization	Linear Vertical (provisions for ±45° or Horizontal)
Horizontal beamwidth	11°
Vertical beamwidth	11°
Gain	21.9 dBd / 24.0 dBi
Electrical downtilt	0°
Impedance	50Ω
VSWR	< 1.35:1
Sidelobe level (horizontal)	> -40 dB (80° ≤ θ ≤ 100°)
Sidelobe level (vertical)	> -48 dB (80° ≤ θ ≤ 100°)
Front-to-back ratio	> 50 dB
IM3 (2x20W carrier)	< -120 dBc
Input power	300W
Connector(s)	7/16 DIN Female
Mechanical Characteristics	
Aperture diameter	991 mm      39 in
Total diameter (including reflector lip)	1080 mm      42.5 in
Weight with mounting brackets	21.4 kg      47 lbs
Survival wind speed	200 km/hr      125 mph
Wind load @ 161 km/hr (100 mph)	1973 N      443 lbf
Mounting Options	
Mounting interface	Pole, 2.375-4.5 in (60-115 mm) diameter
Elevation adjustment range	±15°



Quoted performance parameters are provided to offer typical or range values only and may vary as a result of normal manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage to this product. Improvements to product may be made without notice.