

Optimizer® Dualband Antennas

APX13CV-15PVB-C

Horizontal Beamwidth, deg 65

Gain, dBi 14.0 , 17.0

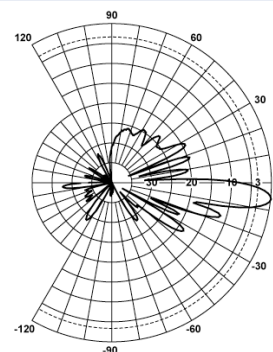
Electrical Downtilt, deg 0-10 , 0-10

ELECTRICAL SPECIFICATIONS

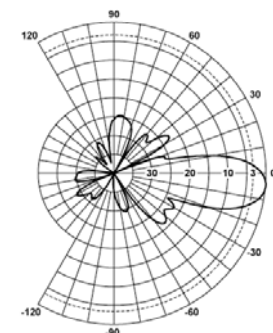
Frequency Range, MHz	824-894	1850-1990
Horizontal Beamwidth, deg	65	65
Vertical Beamwidth, deg	14	7.0
Gain, dBi (dBd)	14.0 (11.9)	17.0 (14.9)
1st Upper Sidelobe Suppression, dB	> 18	
Front-To-Back Ratio, dB	> 25	
VSWR	< 1.5:1	
Isolation between Ports, dB	> 30	
Isolation Between Bands, dB	> 30	
Maximum Power Input, W	500	300
Polarization	Dual pol +/-45°	
3rd Order IMP @ 2 x 43 dBm, dBc	> 150	

MECHANICAL SPECIFICATIONS

Dimensions - HxWxD, mm (in)	1349 x 330 x 130 (53 x 13 x 5.12)	
Survival Wind Speed, km/h (mph)	200 (125)	
Max Wind Loading Area, m² (ft²)	0.54 (5.7)	
Rated Wind Speed, km/h (mph)	160 (100)	
Maximum Thrust @ Rated Wind, N (lbf)	663 (149)	
Front Thrust @ Rated Wind, N (lbf)	663 (149)	
Reflector Material	Aluminum	
Radiating Element Material	Brass	
Radome Material	Fiberglass	
Radome Color	Light Grey RAL7035	
Weight w/ Mtg Hardware, kg (lb)	19.8 (43.6)	
Weight w/o Mtg Hardware, kg (lb)	18.0 (39.6)	
Shipping Weight, kg (lb)	25.8 (56.7)	
Packing Dimensions - HxWxD, m (ft)	1.5 x .26 x .20 (4.9 x 1.3 x 0.85)	
Packing Dimensions, HxWxD, mm (in)	1520 x 400 x 260 (59.8 x 15.7 x 10.2)	



Vertical Pattern-PCS



Horizontal Pattern

APX15CV-15PVB-C

Horizontal Beamwidth, deg 65

Gain, dBi 15.5 , 18.0

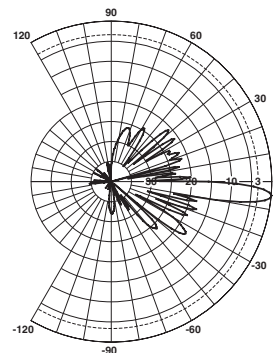
Electrical Downtilt, deg 0-10 , 0-10

ELECTRICAL SPECIFICATIONS

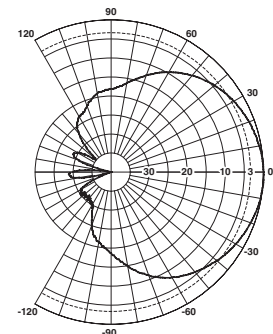
Frequency Range, MHz	824-894	1850-1990
Horizontal Beamwidth, deg	69	62
Vertical Beamwidth, deg	10	5
Gain, dBi (dBd)	15.5 (13.4)	18.0 (15.9)
1st Upper Sidelobe Suppression, dB	> 18	
Front-To-Back Ratio, dB	> 25	
VSWR	< 1.5:1	
Isolation between Ports, dB	> 30	
Isolation Between Bands, dB	> 30	
Maximum Power Input, W	500	300
Polarization	Dual pol +/-45°	
3rd Order IMP @ 2 x 43 dBm, dBc	> 150	

MECHANICAL SPECIFICATIONS

Dimensions - HxWxD, mm (in)	2080 x 330 x 130 (81.8 x 13 x 5.12)	
Survival Wind Speed, km/h (mph)	200 (125)	
Max Wind Loading Area, m² (ft²)	0.89 (9.4)	
Rated Wind Speed, km/h (mph)	160 (100)	
Maximum Thrust @ Rated Wind, N (lbf)	1095 (246)	
Front Thrust @ Rated Wind, N (lbf)	1095 (246)	
Reflector Material	Aluminum	
Radiating Element Material	Brass	
Radome Material	Fiberglass	
Radome Color	Light Grey RAL7035	
Weight w/ Mtg Hardware, kg (lb)	29.8 (65.6)	
Weight w/o Mtg Hardware, kg (lb)	28.0 (61.6)	
Shipping Weight, kg (lb)	33.8 (74)	
Packing Dimensions - HxWxD, m (ft)	2.2 x .40 x .26 (7.3 x 1.3 x 0.85)	
Packing Dimensions, HxWxD, mm (in)	2250 x 400 x 260 (88.5 x 15.7 x 10.2)	



Vertical Pattern-PCS



Horizontal Pattern