

DS7W09P65D-H (698-896 and 1710-2170 MHz)

Diplexed Indoor/Outdoor Dual Band Cross Polarized Antenna

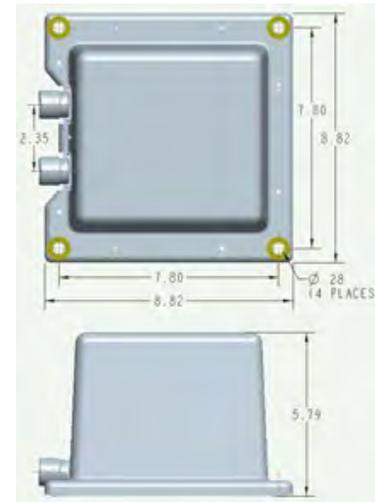
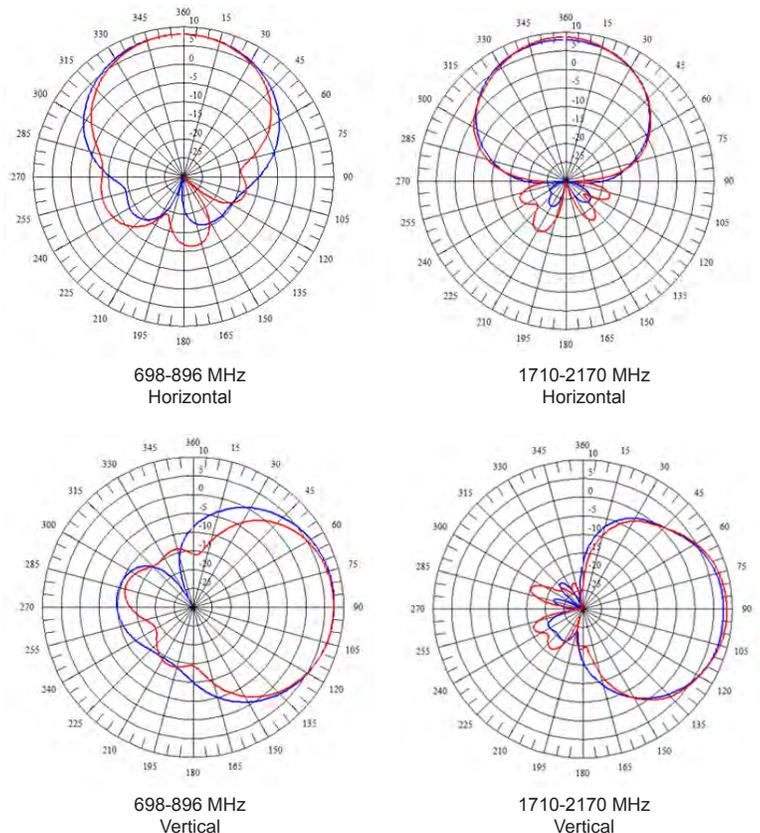
ELECTRICAL SPECIFICATIONS

Frequency Range (MHz)	698-896	1710-2170
Gain (dBd), typical	6	6
Polarization	X-Pol	X-Pol
Nominal Impedance (Ω)	50	50
VSWR	1.5:1	1.5:1
Horizontal Beamwidth -3 dB ($^{\circ}$)	65	65
Vertical Beamwidth -3 dB ($^{\circ}$)	65	65
Electrical Downtilt ($^{\circ}$)	0	0
Front to Back Ratio (dB) $180^{\circ} \pm 30^{\circ}$ copolar	18	28
Isolation Between Inputs (dB)	16	30
Cross Polar Discrimination (XPD) 0° (dB)	20	25
Cross Polar Discrimination (XPD) $\pm 60^{\circ}$ (dB)	4	8
IM3, 2x Tx @ 43 dBm (dBc), typical	< -153	< -153
Power Handling, Average Total (W)	250	150

MECHANICAL SPECIFICATIONS

Connector	2 x 7/16 DIN(F)
Connector Position	Bottom
Dimensions - HxWxD (in/mm)	5.85 x 8.85 x 8.85 / 148.59 x 224.79 x 224.79
Weight (lb/kg)	3 / 1.36
Flat Plate Area (ft ² /m ²)	0.49/0.049
Lateral Thrust @ 100 mph (lbf/N)	28/124.6
Rated Wind Velocity (mph/kph)	165/265.53
Operating Temperature ($^{\circ}$ F)	-40 to 105
Radiator Material	Aluminum
Radome Material/Color	ABS / Light grey
Mounting Hardware (Optional)	DSH202042

PATTERNS



FEATURES AND BENEFITS

- Low profile, 8.85" x 8.85" x 5.85" (w x d x h).
- Very broadband, 698-896 MHz and 1710-2170 MHz
- Each antenna port is internally diplexed, covering all four (4) communications bands: 700 MHz, 850 MHz, PCS and AWS
- Low PIM, < -150