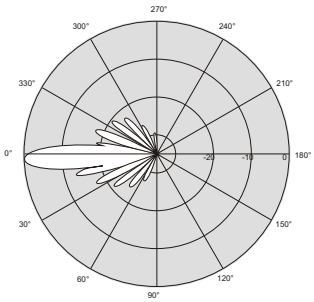
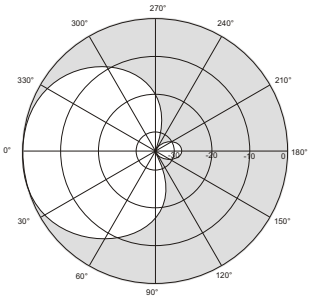
BAP Panel Antenna Series - Slant Pol.

Vertical Pattern



Horizontal Pattern



Electrical Parameters	Specification
Frequency range	1710~1880MHz
Gain	17.8dBi
Isolation between ports	>32dB
Polarization	Slant
Vertical plane -3dB beamwidth	7.6°
Horizontal plane -3dB beamwidth	65°
First upper sidelobe surppression	≥18dB
Return loss	≥16dB
Front to back ratio	≥30dB
Max CW power per port	250W
Impedance	50Ω
IMD performance	≤150dBc
Fixed electrical downtilt	0°,2°,4°,6°
Lighting protection	DC ground

Mechanical Parameters	Specification
Connector type	DIN 7/16F
Rated wind speed	200km/hr
Dimensions H x W x D	1216 x 153 x 86mm
Packed size H x W x D	1303 x 293 x 230mm
Weight (less mounting hardware)	12kg
Operating temperture	Min -30°C Max +60 °C
Radome material	FRP
Mechanical downtilt max. (with adjustable brackets)	12°
Mounting pole (min/max diameter)	50~100mm

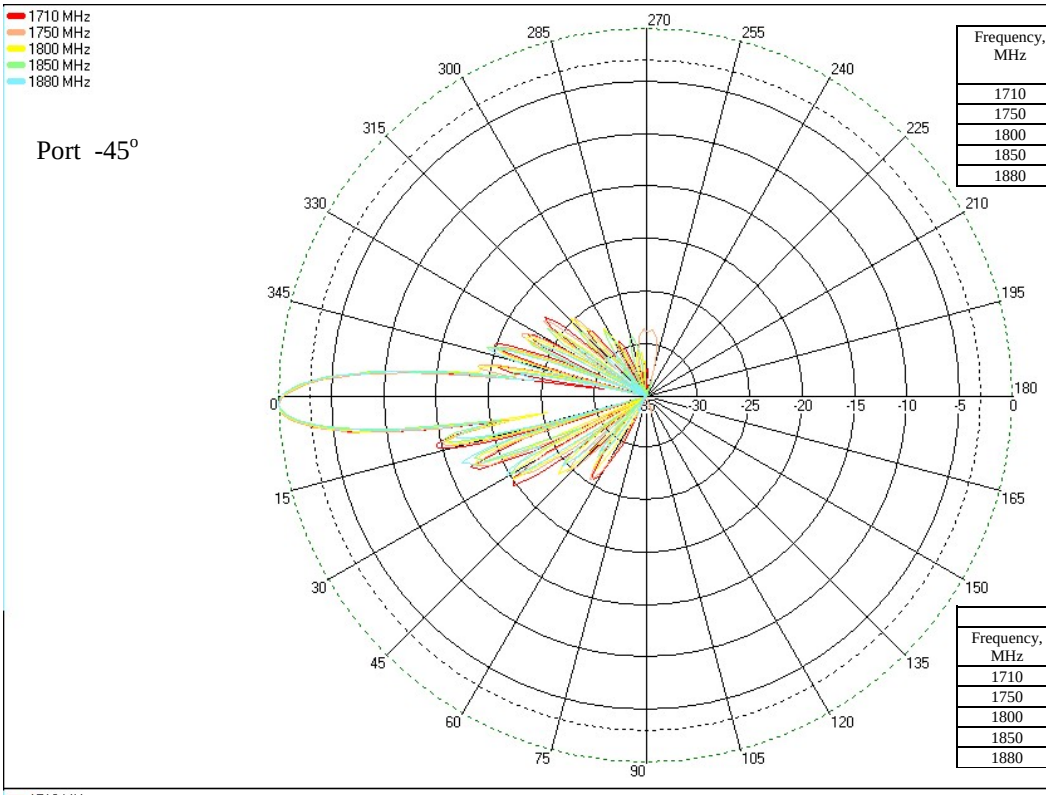
Mechanical Parameters	Specification
Materials:	All internal parts corrosion resistant. All antenna fasteners stainless steel. Bracket assemblies fully galvanized. Radome surface treated for maximum UV protection.
Mounting:	Available with either fixed brackets (non-adjustable) or mechanically adjustable bracket assemblies. Please spe when ordering.
Grounding:	Lower bracket assembly DC ground.

Eyecom company policy is one of continuing improvement, therefore we reserve the right to change this specification without notice.

Mechanical Downtilt Antenna

BAP1800-65S-18D

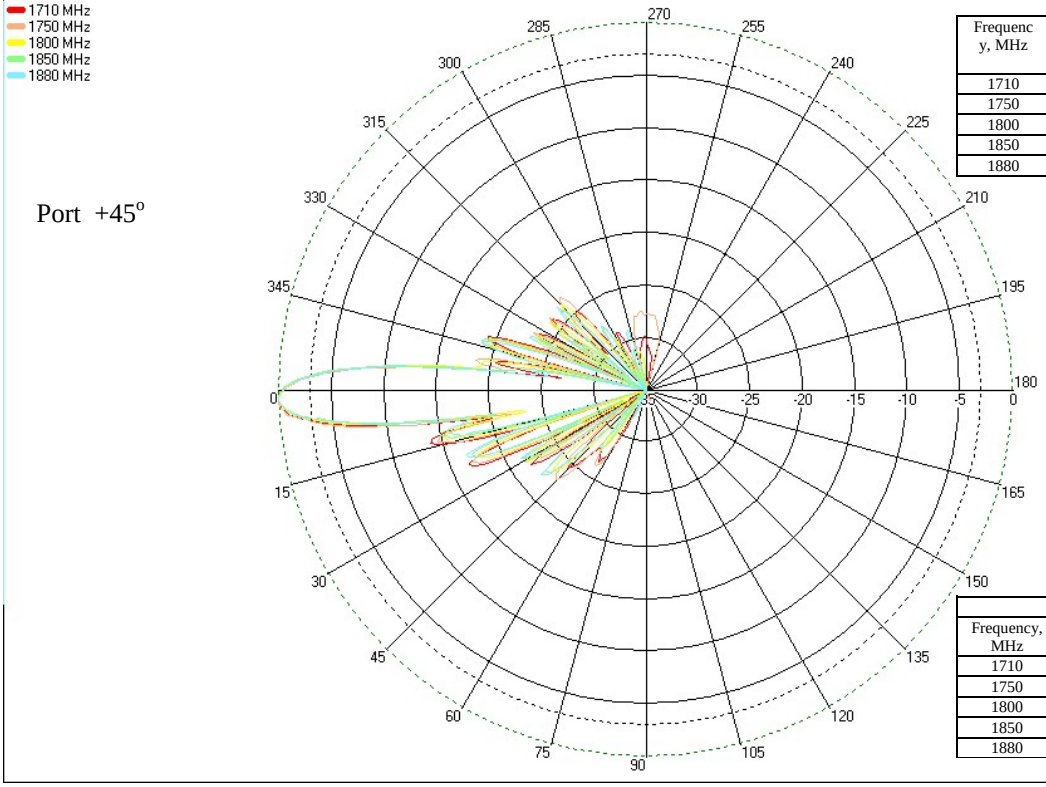
Vertical copolar patterns measured at the main beam direction.（零点填充：-25dB）



Port -45°

Frequency, MHz	Beam direction, degrees	Beamwidth -3 dB/-10 dB, degrees
1710	+1.3	7.6/13.2
1750	+1.6	7.5/12.8
1800	+1.4	7.4/12.9
1850	+1.1	7.2/12.7
1880	+1.2	7.3/12.6

First upper sidelobe		
Frequency, MHz	Suppression, dB	Direction, degrees
1710	-21.1	348.5
1750	-18.8	350.1
1800	-19.0	351.5
1850	-22.0	350.5
1880	-23.3	349.5



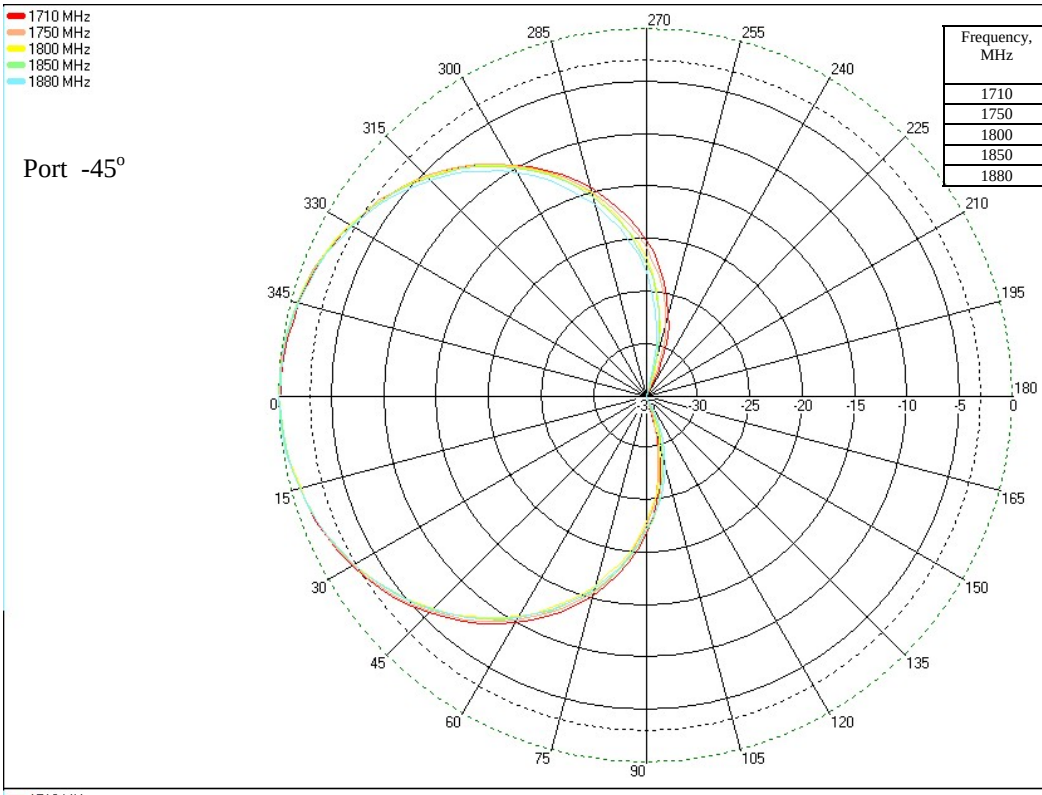
Port +45°

Frequency, MHz	Beam direction, degrees	Beamwidth -3 dB/-10 dB, degrees
1710	+1.5	7.6/13.1
1750	+1.6	7.6/12.8
1800	+1.4	7.3/12.8
1850	+1.2	7.3/12.5
1880	+1.4	7.2/12.4

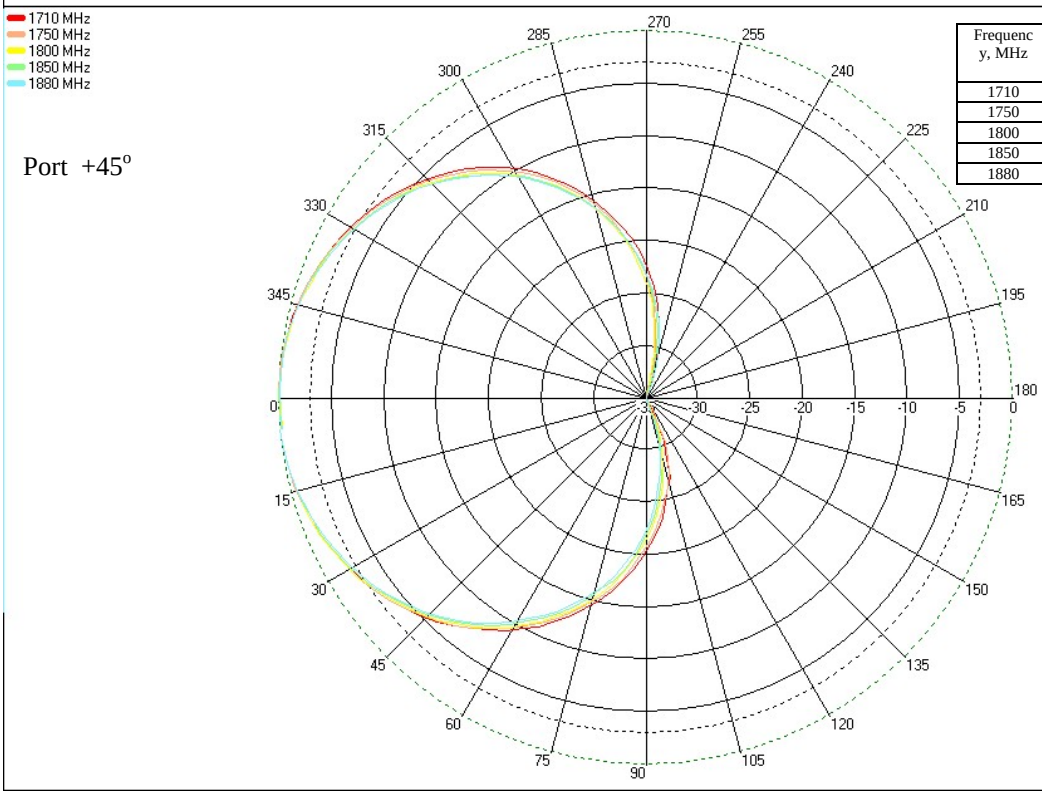
First upper sidelobe		
Frequency, MHz	Suppression, dB	Direction, degrees
1710	-20.3	349.5
1750	-18.5	350.1
1800	-19.1	350.6
1850	-22.3	350.6
1880	-24.6	350.1

BAP1800-65S-18D

Horizontal copolar patterns measured at the main beam direction (2° below horizon).



Frequency, MHz	Beam direction, degrees	Beamwidth -3 dB/-10 dB, degrees
1710	-0.4	64.5 / 121.3
1750	-0.9	64.5 / 119.8
1800	-1.5	63.7 / 118.1
1850	-1.1	63.2 / 118.4
1880	-0.6	62.3 / 116.5



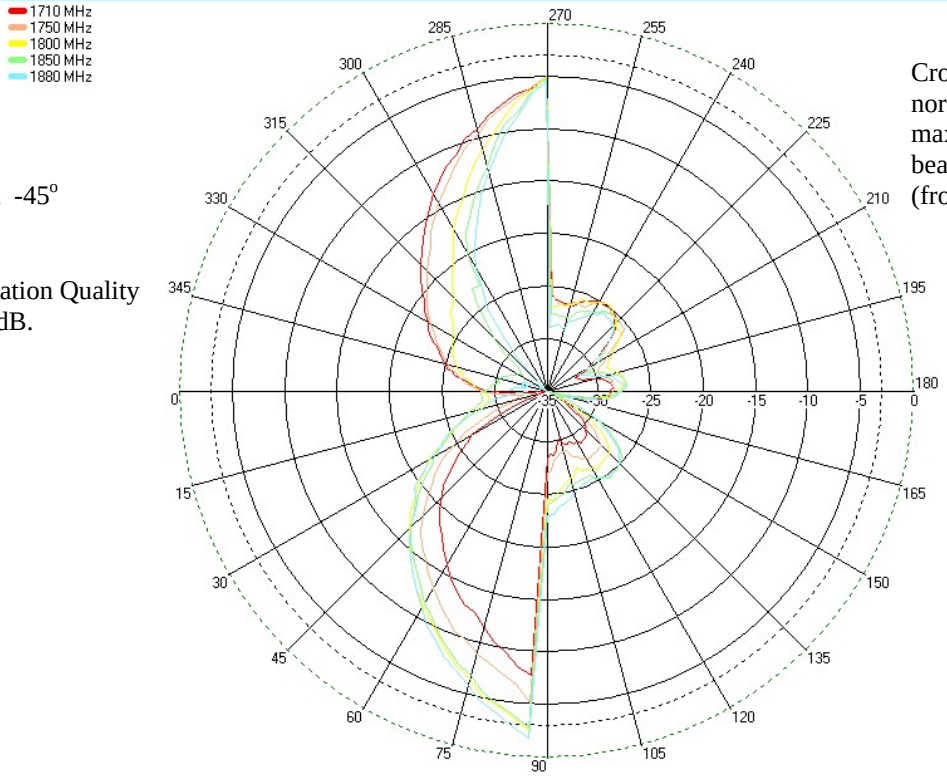
Frequenc y, MHz	Beam direction, degrees	Beamwidth -3 dB/-10 dB, degrees
1710	+0.4	66.8 / 122.4
1750	+0.7	66.2 / 120.4
1800	+1.2	64.6 / 119.0
1850	+0.8	63.8 / 117.4
1880	+0.7	62.6 / 116.6

BAP1800-65S-18D

Horizontal crosspolar patterns measured at the main beam direction (2° below horizon).

Port -45°

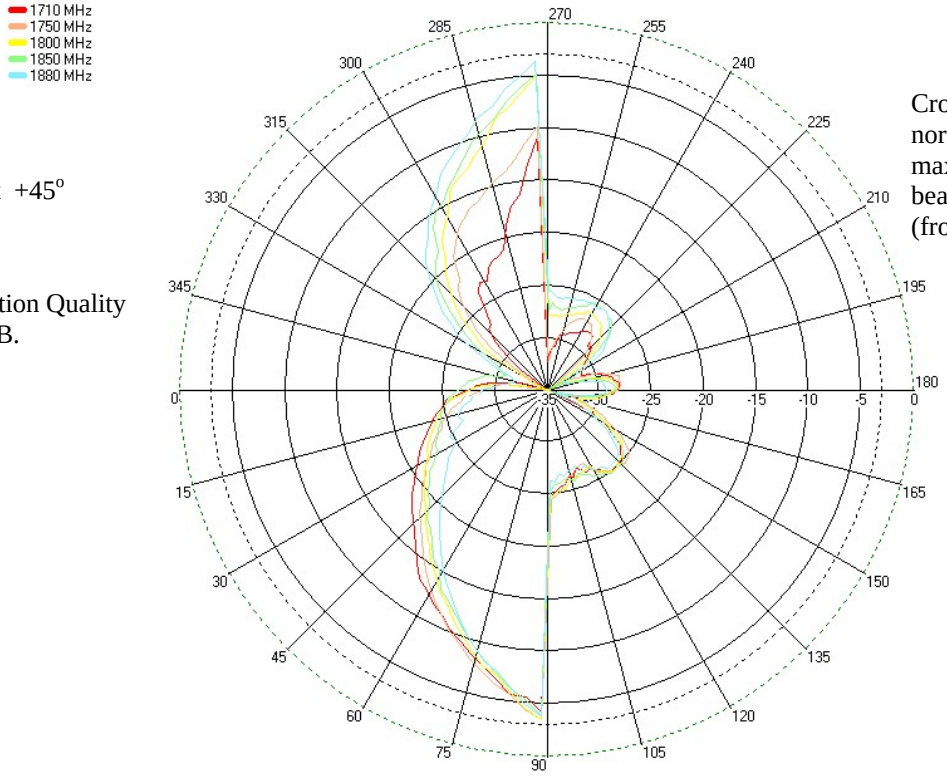
Polarization Quality Ratio, dB.



Cross polar pattern, dB, normalized to copolar maximum at the main beam direction (front to back ratio).

Port +45°

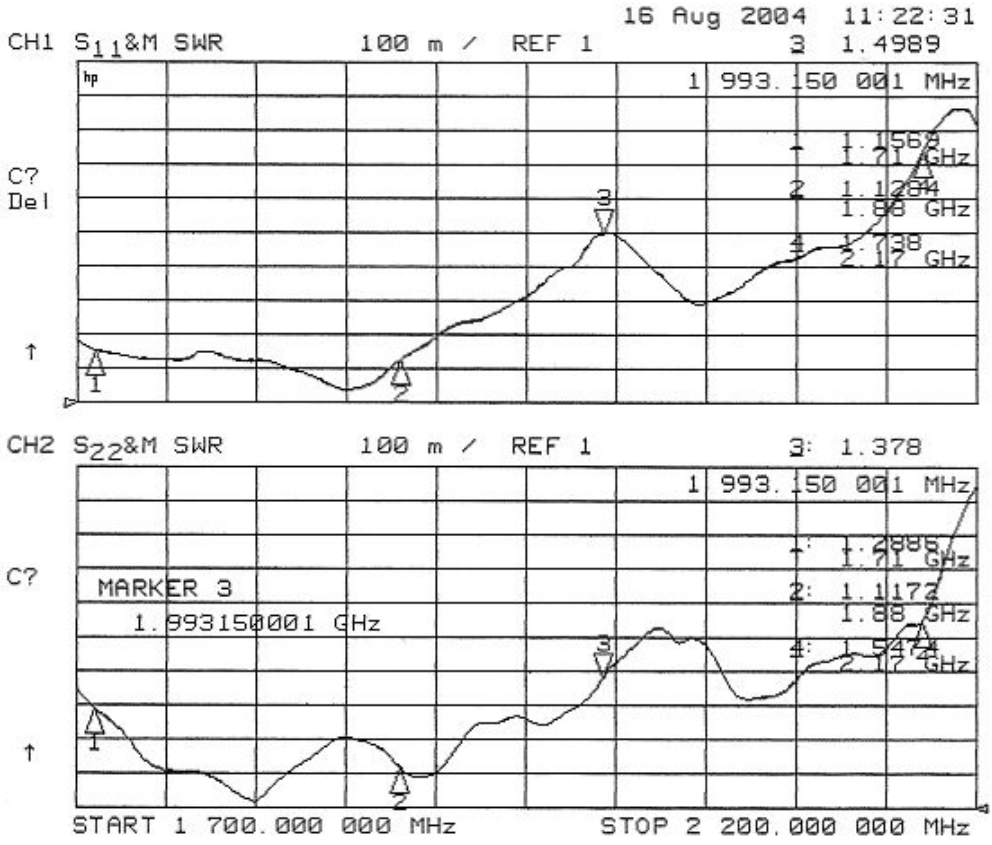
Polarization Quality Ratio, dB.



Cross polar pattern, dB, normalized to copolar maximum at the main beam direction (front to back ratio).

BAP1800-65S-18D

VSWR



Port -45°

Port +45°

Isolation between ports –45° and +45°.