

PH-LLYY15-N0

8-Ports, X-Pol, Panel Antenna, 1.5m, 2x 1710-2690/2x 3300-3800MHz, 65deg, Integrated RET



FEATURES / BENEFITS

- 4 ports / 2 cross pol systems in high band (1710-2690MHz)
- 4 ports / 2 cross pol systems in high band (3300-3800MHz)
- Integrated and field replaceable SRET
- ACU HW Version: 2.02
- Compliant with AISG V2.0 and 3GPP



Technical features

ELECTRICAL SPECIFICATIONS

Electrical Specification Header		HIGH BAND ARRAY (1710-2690 MHz) [Y1]				
Frequency Band	MHz	1710-1880	1850-1990	1920-2170	2300-2400	2490-2690
Gain Typical	dBi	17.3	17.7	18	18.6	18.8
Gain Over all Tilts	dBi	16.9 +/- 0.4	17.4 +/- 0.3	17.6 +/- 0.4	18.3 +/- 0.3	18.2 +/- 0.6
Azimuth Beamwidth 3dB	Deg	76.8 +/- 5.3	74.9 +/- 7.1	71.7 +/- 8.3	67.8 +/- 2.9	61.1 +/- 5.7
Elevation Beamwidth 3dB	Deg	6.4 +/- 0.5	5.9 +/- 0.3	5.5 +/- 0.5	4.9 +/- 0.2	4.5 +/- 0.3
Cross Polar Discrimination at Boresight	dB	15.1	17.5	19.2	22.2	19.6
Cross Polar Discrimination over Sector	dB	11.2	11.7	12	11.2	9.8
F/B at +/-30deg Total Power	dB	23.2	24.1	24.5	25.7	20.6
First Upper Side Lobe Suppression	dB	17.7	17.7	18.4	20	16.1
Electrical Downtilt	Deg	2 to 12				
Cross Polar Isolation	dB	26				
Interband Isolation	dB	26				
VSWR	-	1.5				
Passive Intermodulation (3rd Order, 2 x 43dBm)	dBc	-153				
Maximum Effective Power per Port	Watt	250				

ELECTRICAL SPECIFICATIONS

Electrical Specification Header		HIGH BAND ARRAY (1710-2690 MHz) [Y2]				
Frequency Band	MHz	1710-1880	1850-1990	1920-2170	2300-2400	2490-2690
Gain Typical	dBi	17.5	17.8	18.1	18.7	18.7
Gain Over all Tilts	dBi	17.1 +/- 0.4	17.5 +/- 0.3	17.7 +/- 0.4	18.4 +/- 0.3	18.2 +/- 0.5
Azimuth Beamwidth 3dB	Deg	75.2 +/- 5.6	75.2 +/- 6.1	73.4 +/- 7.6	69 +/- 3.2	61.5 +/- 6.4
Elevation Beamwidth 3dB	Deg	6.6 +/- 0.4	6 +/- 0.2	5.7 +/- 0.5	5 +/- 0.2	4.6 +/- 0.3
Cross Polar Discrimination at Boresight	dB	15.3	18.4	19.1	20.9	18.4
Cross Polar Discrimination over Sector	dB	11.3	11.3	11.4	11.4	9.2
F/B at +/-30deg Total Power	dB	23.6	25	25.5	25.6	20.4
First Upper Side Lobe Suppression	dB	19.1	19.5	21	20.1	17
Electrical Downtilt	Deg	2 to 12				
Cross Polar Isolation	dB	26				
Interband Isolation	dB	26				
VSWR	-	1.5				
Passive Intermodulation (3rd Order, 2 x 43dBm)	dBc	-153				
Maximum Effective Power per Port	Watt	250				

ELECTRICAL SPECIFICATIONS

Electrical Specification Header		HIGH BAND ARRAY (3300-3800 MHz) [P1]	
Frequency Band	MHz	3300-3500	3500-3800
Gain Typical	dBi	17.3	17.8
Gain Over all Tilts	dBi	17 +/- 0.3	17.3 +/- 0.5
Azimuth Beamwidth 3dB	Deg	66 +/- 5.2	61.9 +/- 4.2
Elevation Beamwidth 3dB	Deg	5.6 +/- 0.3	5.3 +/- 0.3
Cross Polar Discrimination at Boresight	dB	19.2	17.6
Cross Polar Discrimination over Sector	dB	10.1	10.3
F/B at +/-30deg Total Power	dB	18.5	20.2
First Upper Side Lobe Suppression	dB	18.4	19.1
Electrical Downtilt	Deg	2 to 12	
Cross Polar Isolation	dB	26	
Interband Isolation	dB	26	
VSWR	-	1.5	
Passive Intermodulation (3rd Order, 2 x 43dBm)	dBc	-153	
Maximum Effective Power per Port	Watt	200	

ELECTRICAL SPECIFICATIONS

Electrical Specification Header		HIGH BAND ARRAY (3300-3800 MHz) [P2]	
Frequency Band	MHz	3300-3500	3500-3800
Gain Typical	dBi	17.2	17.7
Gain Over all Tilts	dBi	16.8 +/- 0.4	17.2 +/- 0.5
Azimuth Beamwidth 3dB	Deg	68.9 +/- 5.4	63.1 +/- 4.9
Elevation Beamwidth 3dB	Deg	5.6 +/- 0.3	5.3 +/- 0.3
Cross Polar Discrimination at Boresight	dB	20.1	16.2
Cross Polar Discrimination over Sector	dB	14.2	8.9
F/B at +/-30deg Total Power	dB	17.7	19.9
First Upper Side Lobe Suppression	dB	17.7	16.9
Electrical Downtilt	Deg	2 to 12	
Cross Polar Isolation	dB	26	
Interband Isolation	dB	26	
VSWR	-	1.5	
Passive Intermodulation (3rd Order, 2 x 43dBm)	dBc	-153	
Maximum Effective Power per Port	Watt	200	

ELECTRICAL SPECIFICATIONS

Impedance	Ohm	50
Polarization	Deg	±45°

MECHANICAL SPECIFICATIONS

Dimensions - H x W x D	mm (in)	1495 x 448 x 188 (58.9 x 17.6 x 7.4)
Weight (Antenna Only)	kg (lb)	20 (44.1)
Weight (Mounting Hardware only)	kg (lb)	4.5 (9.9)
Packing size- HxWxD	mm (in)	1775 x 575 x 305 (69.9 x 22.6 x 12)
Shipping Weight	kg (lb)	29.3 (64.6)
Connector type		8 x 4.3-10 female/bottom + 2 AISG connectors (1 male, 1 female)
Radome Material / Color		Fiberglass / Light Gray

TESTING AND ENVIRONMENTAL

Temperature Range	°C (°F)	-40 to 60 (-40 to 140)
Lightning protection		DC Ground
Survival/Rated Wind Velocity	km/h	200 (150)
Wind Load @Rated Wind Front	N	824
Wind Load @Rated Wind Side	N	296
Wind Load @Rated Wind Rear	N	836

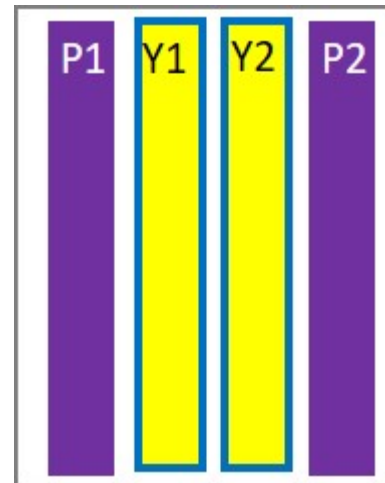
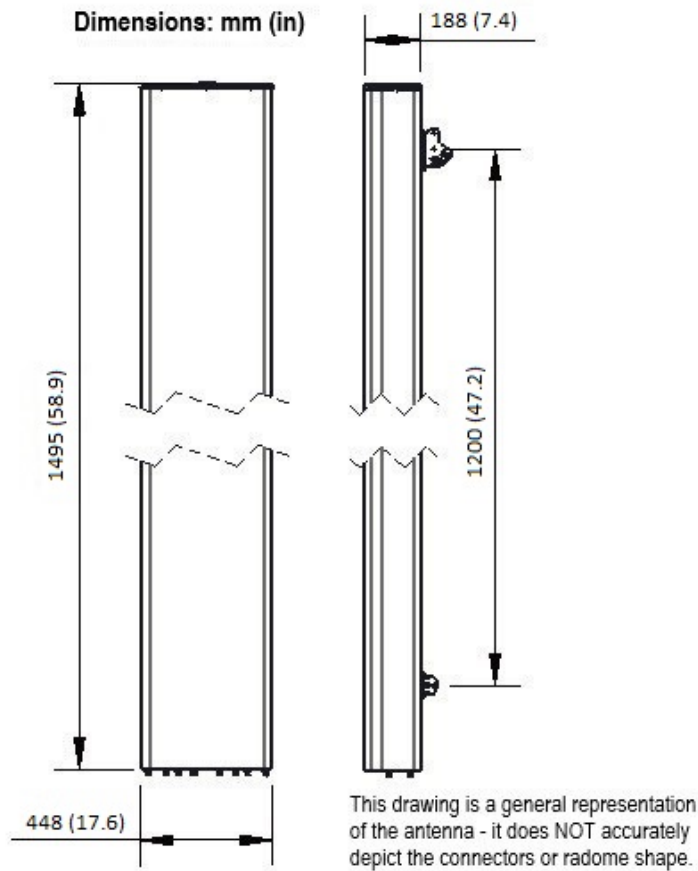
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8-Ports, X-Pol, Panel Antenna, 1.5m, 2x 1710-2690/2x 3300-3800MHz, 65deg, Integrated RET

ORDERING INFORMATION

Order No.	Configuration	Mounting Hardware	Mounting pipe Diameter	Shipping Weight
PH-LLYY15-N0	Internal RET(ACU-I20-B4)	APM50-B1	50-110 mm	29.3 kg





External Document Links

[APM50_Series_Installation_Instructions](#)

Notes

- All electrical parameters are compliant with BASTA NGMN 11.1 requirements.
- For additional mounting information please click "External Document Links".
- **Radiating patterns:** [Request pattern files](#)