



APXVLL09B_43-C-I20

Dual band X-pol Antenna, 1710-2690/1710-2690MHz, 65deg, 16.1/16.1 dBi, 0.9m, 2-12deg, Integrated RET

FEATURES / BENEFITS

- 4 ports / 2 cross pol systems in high band (1710-2690MHz)
- Supporting 4x4 MIMO
- Integrated and field replaceable SRET
- ACU HW Version -2.02 / SW Version -2.72
- 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	15.1	15.1	15.1	15.1	16.1
Gain Over all Tilts	dBi	15 +/- 0.1	15 +/- 0.1	15 +/- 0.1	15 +/- 0.1	15.6 +/- 0.5
Azimuth Beamwidth 3dB	Deg	66.8 +/- 2.5	68.2 +/- 3	69.4 +/- 2.5	67 +/- 2.5	60 +/- 4
Elevation Beamwidth 3 dB	Deg	13.2 +/- 0.5	12.5 +/- 0.5	11.7 +/- 1	10.1 +/- 0.5	9.3 +/- 0.5
Cross Polar Discrimination at Boresight	dB	14	16	17	21	23
Cross Polar Discrimination over Sector	dB	14	14	13	12	12.4
F/B at +/-30deg Total Power	dB	24	24	23	23	23
First Upper Side Lobe Supression	dB	19	19	18	16.5	15
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	15.1	15.1	15.1	15.8	16.1
Gain Over all Tilts	dBi	15 +/- 0.1	15 +/- 0.1	15 +/- 0.1	15.3 +/- 0.5	15.6 +/- 0.5
Azimuth Beamwidth 3dB	Deg	67 +/- 3.5	69.1 +/- 3.6	70.1 +/- 2	67.1 +/- 2.4	60.9 +/- 4
Elevation Beamwidth 3 dB	Deg	13.2 +/- 0.5	12.4 +/- 0.5	11.6 +/- 1	10.1 +/- 0.5	9.3 +/- 0.5
Cross Polar Discrimination at Boresight	dB	15	17	18	22.2	23.8
Cross Polar Discrimination over Sector	dB	14	12.3	12	11.6	12
F/B at +/-30deg Total Power	dB	24	24.9	24	23.2	22
First Upper Side Lobe Suppression	dB	16	16.9	16	15	13
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

Impedance	Ohm	50
Polarization	Deg	±45°

MECHANICAL SPECIFICATIONS

Dimensions - H x W x D	mm (in)	850 x 320 x 123 (33.5 x 12.6 x 4.8)
Weight (Antenna Only)	kg (lb)	10 (22)
Weight (Mounting Hardware only)	kg (lb)	4.5 (9.9)
Packing size- HxWxD	mm (in)	1110 x 410 x 250 (43.7 x 16.1 x 9.8)
Shipping Weight	kg (lb)	19.1 (42.1)
Connector type		4 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	224
Wind Load @Rated Wind Side	N	144
Wind Load @Rated Wind Rear	N	260

ORDERING INFORMATION

Order No.	Configuration	Mounting Hardware	Mounting pipe Diameter	Shipping Weight
APXVLL09B 43-C-I20	Internal RET (ACU-I20-B2)	APM50-B1	50-110 mm	19.1 kg

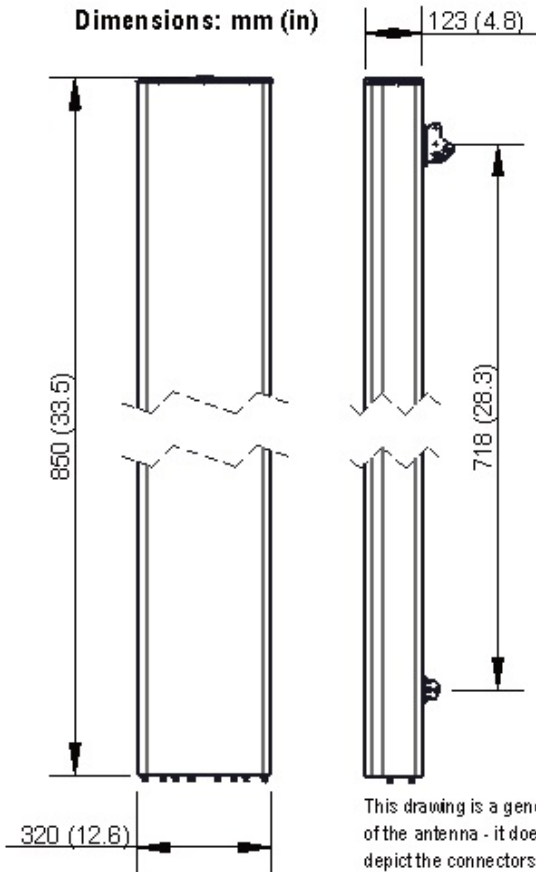


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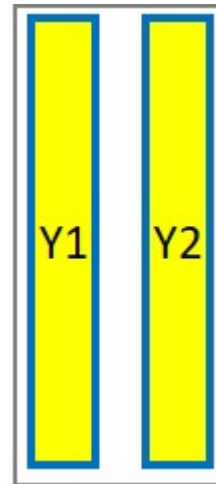
Dual band X-pol Antenna, 1710-2690/1710-2690MHz, 65deg, 16.1/16.1 dBi, 0.9m, 2-12deg, Integrated RET



Dimensions: mm (in)



This drawing is a general representation of the antenna - it does NOT accurately depict the connectors or radome shape.



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](#)



PRODUCT DATASHEET

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