PRODUCT DATASHEET

APXVL20B_43-C-I20

Single Band, 2-port Antenna, 2.0m, 1710-2690 MHz, 65deg, 19.4 dBi, 0-6deg, Integrated RET

FEATURES / BENEFITS

- 2 ports / 1 cross pol system in high band (1710-2690MHz)
- Integrated and field replaceable SRET
- ACU HW Version -2.02
- Compliant with AISG V2.0 and 3GPP



Technical features

ELECTRICAL SPECIFICATIONS

Electrical Specification Header		LOW BAND ARRAY (1710-2690) [Y1]				
Frequency Band	MHz	1710-1880	1850-1990	1920-2170	2300-2400	2500-2690
Gain Typical	dBi	18.4	18.6	18.9	19.3	19.4
Gain Over all Tilts	dBi	17.9 +/- 0.5	18.4 +/- 0.2	18.6 +/- 0.3	19 +/- 0.3	19 +/- 0.4
Azimuth Beamwidth 3dB	Deg	72.7 +/- 3	70.4 +/- 2	68.7 +/- 2.4	63.8 +/- 2.8	58.9 +/- 1.7
Elevation Beamwidth 3dB	Deg	4.9 +/- 0.2	4.5 +/- 0.2	4.2 +/- 0.3	3.8 +/- 0.2	3.6 +/- 0.2
Cross Polar Discrimination at Boresight	dB	17.5	19.1	18.9	18.1	23.8
Cross Polar Discrimination over Sector	dB	16.6	16.7	14.7	11	10
F/B at +/-30deg Total Power	dB	24.1	24.9	24.9	25.7	23.9
First Upper Side Lobe Suppression	dB	21.9	19.7	19.8	21.2	17.7
Electrical Downtilt	Deg	0 to 6				
Cross Polar Isolation	dB	28				
VSWR	-	1.5				
Passive Intermodulation (3rd Order, 2 x 43dBm)	dBc	-150				
Maximum Effective Power per Port	Watt	250				

ELECTRICAL SPECIFICATIONS

Impedance	Ohm	50
Polarization	Deg	±45°

All values nominal unless tolerances provided; information contained in the present datasheet is subject to confirmation at time of ordering.

MECHANICAL SPECIFICATIONS

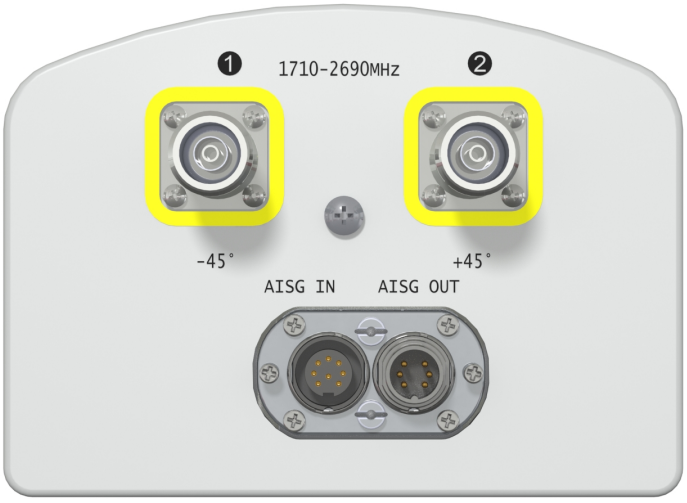
Dimensions - H x W x D	mm (in)	2080 x 160 x 115 (81.9 x 6.3 x 4.5)
Weight (Antenna Only)	kg (lb)	11.5 (25.4)
Weight (Mounting Hardware only)	kg (lb)	2.7 (6)
Packing size- HxWxD	mm (in)	2320 x 285 x 240 (91.3 x 11.2 x 9.4)
Shipping Weight	kg (lb)	19 (41.9)
Connector type		2 x 4.3-10 female/bottom + 2 AISG connectors (1 male, 1 female)
Radome Material / Color		Fiberglass / Light Grey RAL7035

TESTING AND ENVIRONMENTAL

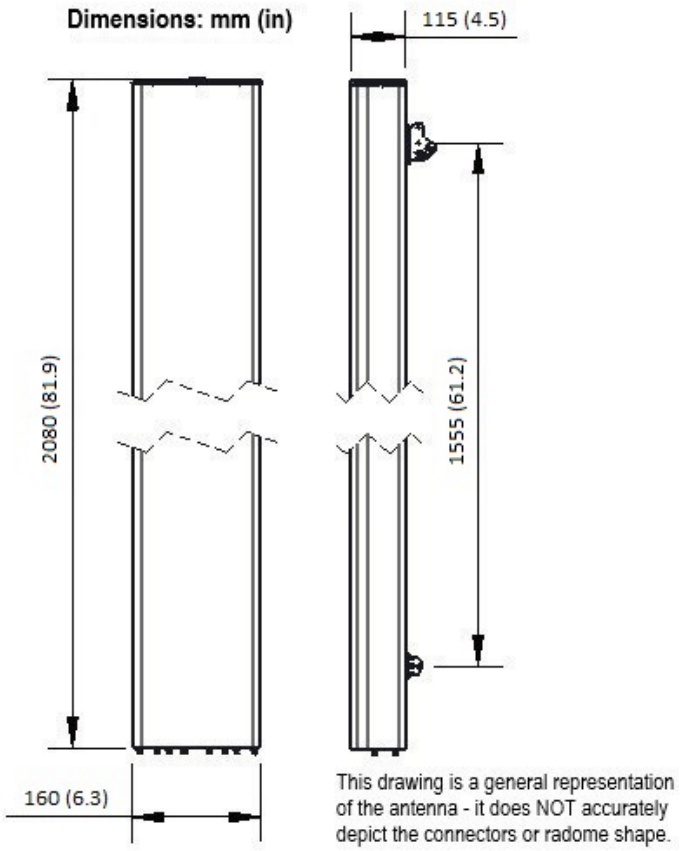
Temperature Range	°C (°F)	-40 to 60 (-40 to 140)
Lightning protection		Direct Ground
Survival/Rated Wind Velocity	km/h	200 (150)
Wind Load @Rated Wind Front	N	410
Wind Load @Rated Wind Side	N	200
Wind Load @Rated Wind Rear	N	680

ORDERING INFORMATION

Order No.	Configuration	Mounting Hardware	Mounting pipe Diameter	Shipping Weight
APXVL20B_43-C-I20	Internal RET(ACU-I20-B1)	APM50-B3	60-110mm	19.0 kg



All values nominal unless tolerances provided; information contained in the present datasheet is subject to confirmation at time of ordering.





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

All values nominal unless tolerances provided; information contained in the present datasheet is subject to confirmation at time of ordering.