PRODUCT DATASHEET

APXVB3L26B2_43-C-I20

8-Ports, X-Pol, Panel Antenna, 2.6m, 1x690-960/3x1695-2690MHz, 65deg, Integrated RET

FEATURES / BENEFITS

- 2 ports / 1 cross pol systems in low band (690-960 MHz)
- 6 ports / 3 cross pol systems in high band (1695-2690 MHz)
- Integrated and field replaceable SRET
- ACU HW Version -HRLS200608H1.00
- Compliant with AISG V2.0 and 3GPP



Technical features

ELECTRICAL SPECIFICATIONS

Electrical Specification Header		LOW BAND ARRAY (690-960 MHZ) [R1]		
Frequency Band	MHz	690-806	790-894	880-960
Gain Typical	dBi	16	16.6	16.6
Gain Over all Tilts	dBi	15.5 +/- 0.5	16.1 +/- 0.5	16.1 +/- 0.5
Azimuth Beamwidth 3dB	Deg	67.1 +/- 1.2	64.6 +/- 1.7	63.7 +/- 1.5
Elevation Beamwidth 3dB	Deg	8.9 +/- 1	8 +/- 0.5	7.2 +/- 0.5
Cross Polar Discrimination at Boresight	dB	24	25	25
Cross Polar Discrimination over Sector	dB	8	9	8
F/B at +/-30deg Total Power	dB	22	25	25
First Upper Side Lobe Suppression	dB	16.3	15.7	16.2
Electrical Downtilt	Deg	2 to 12		
Cross Polar Isolation	dB	28		
Interband Isolation	dB	28		
VSWR	-	1.5		
Passive Intermodulation (3rd Order, 2 x 43dBm)	dBc	-153		
Maximum Effective Power per Port	Watt	250		

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

ELECTRICAL SPECIFICATIONS

Electrical Specification Header		HIGH BAND ARRAY (1695-2690 MHZ) [Y1]				
Frequency Band	MHz	1695 - 1880	1850 - 1990	1920 - 2170	2300 - 2400	2490 - 2690
Gain Typical	dBi	18	18.6	19.4	19.7	20
Gain Over all Tilts	dBi	17.5 +/- 0.5	18.1 +/- 0.5	18.8 +/- 0.6	19.2 +/- 0.5	19 +/- 1
Azimuth Beamwidth 3dB	Deg	68.1 +/- 3.8	67.8 +/- 1.8	66.8 +/- 4	58.9 +/- 2.6	55.8 +/- 2.6
Elevation Beamwidth 3dB	Deg	5.3 +/- 0.5	4.9 +/- 0.2	4.4 +/- 0.5	4 +/- 0.1	4 +/- 0.1
Cross Polar Discrimination at Boresight	dB	24	25.7	22.7	18.6	21.6
Cross Polar Discrimination over Sector	dB	10.6	10	9.8	7	1.4
F/B at +/-30deg Total Power	dB	24.6	26	28	24	20
First Upper Side Lobe Suppression	dB	16	15.5	18.5	16.4	18.6
Electrical Downtilt	Deg	2 to 10				
Cross Polar Isolation	dB	28				
Interband Isolation	dB	28				
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 (1695-2690 MHZ) [Y2]				
Frequency Band	MHz	1695 - 1880	1850 - 1990	1920 - 2170	2300 - 2400	2490 - 2690
Gain Typical	dBi	17.8	18.1	19.9	18.9	18.3
Gain Over all Tilts	dBi	17.3 +/- 0.5	18 +/- 0.1	18.9 +/- 1	18.4 +/- 0.5	17.8 +/- 0.5
Azimuth Beamwidth 3dB	Deg	60.9 +/- 3	60.5 +/- 1.7	56.6 +/- 3.4	53.2 +/- 2.7	58.4 +/- 3.5
Elevation Beamwidth 3dB	Deg	5.3 +/- 0.5	5 +/- 0.1	4.6 +/- 0.5	4 +/- 0.1	4 +/- 0.1
Cross Polar Discrimination at Boresight	dB	18.3	20.2	19.4	17.5	23.7
Cross Polar Discrimination over Sector	dB	6	7	6	0.6	2
F/B at +/-30deg Total Power	dB	25.5	26.8	27	26.8	25
First Upper Side Lobe Suppression	dB	16.6	20	19.7	18.7	17
Electrical Downtilt	Deg	2 to 10				
Cross Polar Isolation	dB	28				
Interband Isolation	dB	28				
VSWR	-	1.5				
Passive Intermodulation (3rd Order, 2 x 43dBm)	dBc	-153				
Maximum Effective Power per Port	Watt	250				

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ELECTRICAL SPECIFICATIONS

Electrical Specification Header		HIGH BAND ARRAY (1695-2690 MHZ) [Y3]				
Frequency Band	MHz	1695 - 1880	1850 - 1990	1920 - 2170	2300 - 2400	2490 - 2690
Gain Typical	dBi	18	18.1	19.1	19	19.4
Gain Over all Tilts	dBi	17.5 +/- 0.5	18 +/- 0.1	18.6 +/- 0.5	18.9 +/- 0.1	18.9 +/- 0.5
Azimuth Beamwidth 3dB	Deg	67.6 +/- 3.6	67.2 +/- 1.5	66.5 +/- 3.4	58.9 +/- 2.7	55.7 +/- 2.6
Elevation Beamwidth 3dB	Deg	5.2 +/- 0.5	5 +/- 0.1	4.5 +/- 0.5	4 +/- 0.1	4 +/- 0.1
Cross Polar Discrimination at Boresight	dB	26	27.7	23.6	19.6	24
Cross Polar Discrimination over Sector	dB	9	9	9.3	7.8	1.5
F/B at +/-30deg Total Power	dB	24.5	27	28	24.9	20
First Upper Side Lobe Suppression	dB	14.2	16	18.4	15.3	16.5
Electrical Downtilt	Deg	2 to 10				
Cross Polar Isolation	dB	28				
Interband Isolation	dB	28				
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)	2498 x 398 x 158 (98.3 x 15.7 x 6.2)
Weight (Antenna Only)	kg (lb)	29.5 (65)
Weight (Mounting Hardware only)	kg (lb)	5.5 (12.1)
Packing size- HxWxD	mm (in)	2698 x 493 x 278 (106.2 x 19.4 x 10.9)
Shipping Weight	kg (lb)	42.2 (93)
Connector type		8 x 4.3-10 female/bottom + 2 AISG connectors (1 male, 1 female)
Radome Material / Color		Fiberglass / Light Gray

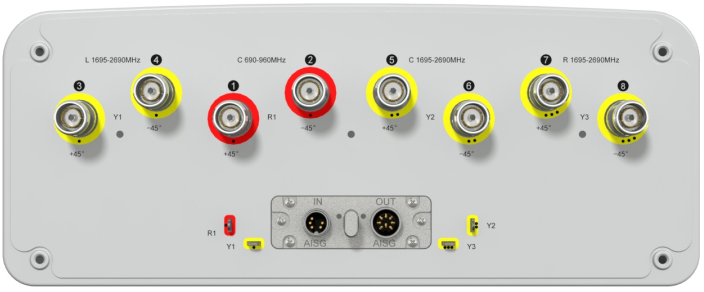
TESTING AND ENVIRONMENTAL

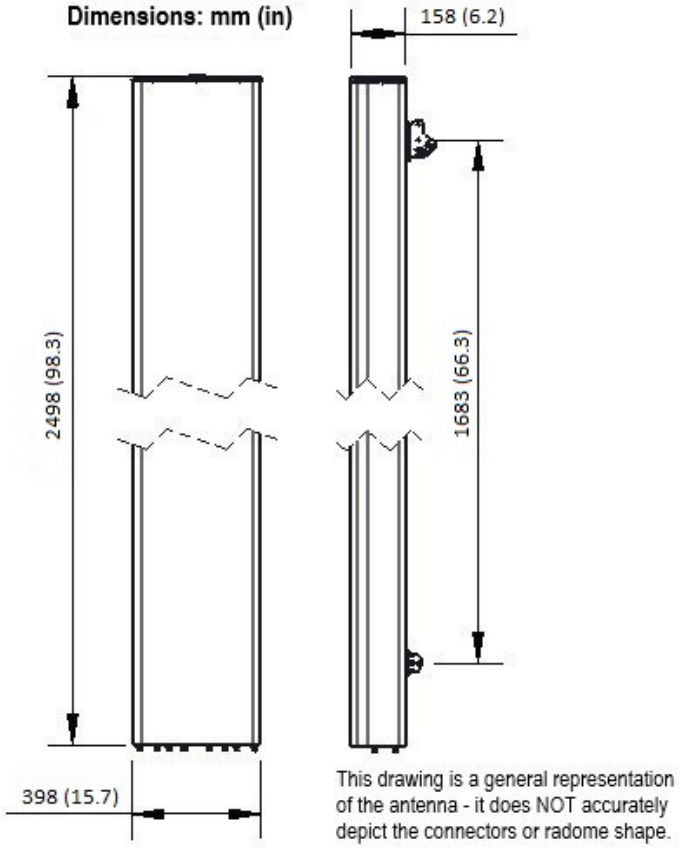
Temperature Range	°C (°F)	-40 to 60 (-40 to 140)
Lightning protection		DC Ground
Survival/Rated Wind Velocity	km/h	200 (150)
Wind Load @Rated Wind Front	N	915
Wind Load @Rated Wind Side	N	450
Wind Load @Rated Wind Rear	N	1025

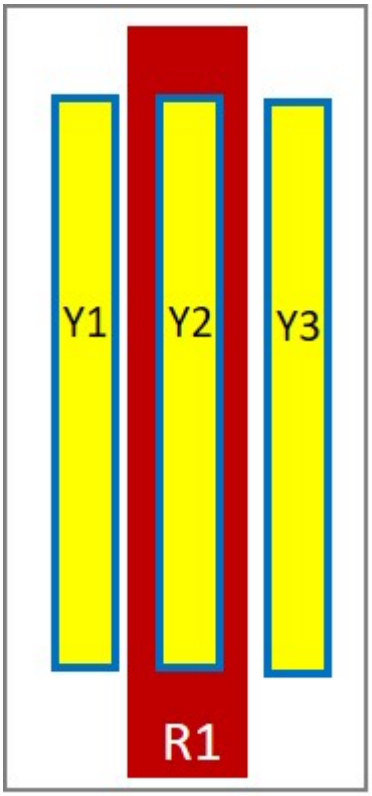
ORDERING INFORMATION

Order No.	Configuration	Mounting Hardware	Mounting pipe Diameter	Shipping Weight
APXVB3L26B2_43-C-I20	Internal RET (ACU-I20-H12I)	APM50-H2	50-125 mm	42.2 Kg

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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

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