

APXV3BLL20B_43-C-I20, -A-I20

6-Ports, X-Pol, Narrow Beam Antenna, 2.0m, 1x 698-960/2x 1710-2690MHz, 33deg, Integrated RET

FEATURES / BENEFITS

- 33deg half power beamwidth at all ports
- 2 ports / 1 cross pol system in low band (698-960MHz)
- 4 ports / 2 cross pol systems in high band (1710-2690MHz)
- Integrated and field replaceable SRET
- ACU HW Version: 2.02
- Optional with Direct Pipe no tilt mounting hardware (Model name Suffix -A-I20)
- Compliant with AISG V2.0 and 3GPP



Technical features

ELECTRICAL SPECIFICATIONS

Electrical Specification Header		Low Band Array (698-960 MHz) [R1]		
Frequency Band	MHz	698-806	790-894	880-960
Gain Typical	dBi	17.7	19.3	19.4
Gain Over all Tilts	dBi	17.2 +/- 0.5	18.3 +/- 1	18.9 +/- 0.5
Azimuth Beamwidth 3dB	Deg	39.5 +/- 3	34 +/- 2	30.9 +/- 1
Elevation Beamwidth 3dB	Deg	12.2 +/- 1	10.9 +/- 1	9.7 +/- 0.5
Cross Polar Discrimination at Boresight	dB	29	29	28
Cross Polar Discrimination over Sector	dB	2	14	16
F/B at +/-30deg Total Power	dB	22	23	23
First Upper Side Lobe Suppression	dB	17	18	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	-150		
Maximum Effective Power per Port	Watt	350		

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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	18	17.7	17.9	18.1	18.7
Gain Over all Tilts	dBi	17 +/- 1	17.2 +/- 0.5	17.4 +/- 0.5	17.6 +/- 0.5	17.7 +/- 1
Azimuth Beamwidth 3dB	Deg	40.9 +/- 3.6	36.2 +/- 3.6	34.6 +/- 2.5	31.7 +/- 2.9	32.1 +/- 4.5
Elevation Beamwidth 3dB	Deg	9.7 +/- 0.5	9 +/- 1	8.8 +/- 0.5	8 +/- 0.1	7.5 +/- 0.5
Cross Polar Discrimination at Boresight	dB	22	21	17	16	20
Cross Polar Discrimination over Sector	dB	2	1	2	1	2
F/B at +/-30deg Total Power	dB	21.8	22	22	21	19
First Upper Side Lobe Suppression	dB	16	14	16	20	19
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	-150				
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	17.6	17.9	18.2	18.2	18.4
Gain Over all Tilts	dBi	17.1 +/- 0.5	17.4 +/- 0.5	17.7 +/- 0.5	17.7 +/- 0.5	17.8 +/- 0.6
Azimuth Beamwidth 3dB	Deg	39.9 +/- 3.7	35.8 +/- 3	35.1 +/- 2.1	33.1 +/- 2.7	32.5 +/- 3.8
Elevation Beamwidth 3dB	Deg	9.7 +/- 0.7	9.1 +/- 0.5	8.9 +/- 0.6	8 +/- 1	7.5 +/- 0.5
Cross Polar Discrimination at Boresight	dB	21	21	15	17	18
Cross Polar Discrimination over Sector	dB	2	1	1	1.3	2
F/B at +/-30deg Total Power	dB	23	22	21	21	19
First Upper Side Lobe Suppression	dB	14	13	15.6	15.4	16
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	-150				
Maximum Effective Power per Port	Watt	250				

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ELECTRICAL SPECIFICATIONS

Impedance	Ohm	50
Polarization	Deg	±45°

MECHANICAL SPECIFICATIONS

Dimensions - H x W x D	mm (in)	2080 x 565 x 145 (81.9 x 22.2 x 5.7)
Weight (Antenna Only)	kg (lb)	39 (86)
Packing size- HxWxD	mm (in)	2355 x 655 x 245 (92.7 x 25.8 x 9.6)
Connector type		6x 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	1388
Wind Load @Rated Wind Side	N	556
Wind Load @Rated Wind Rear	N	930

ORDERING INFORMATION

Order No.	Configuration	Mounting Hardware	Mounting Pipe Diameter	Shipping Weight kg(lb)	Mounting Hardware Weight kg(lb)
APXV3BLL20B_43-C-I20	Internal RET (ACU-I20-B3)	APM50-B1	50-110mm	51.0 (112.4)	4.5 (9.9)
APXV3BLL20B_43-A-I20	Internal RET (ACU-I20-B3)	APM50-B1N (Direct Pipe no tilt)	50-110mm	49.9 (110.0)	3.4 (7.5)



