

SP-LLYYZ06-F0

10-Ports, X-Pol, Panel Antenna, 0.6m, 2x 1695-2690/2x 3300-4200/ 5150-5925, 65deg, Fixed Tilt

FEATURES / BENEFITS

- 4 ports / 2 cross pol systems in mid band (1695-2690MHz)
- 4 ports / 2 cross pol systems in high band (3300-4200MHz)
- 2 ports / 1 cross pol system in high band (5150-5925MHz)
- Fixed tilt

**Technical features****ELECTRICAL SPECIFICATIONS**

Electrical Specification Header		Mid Band Arrays (1695-2690 MHz) Ports 1-4				
Frequency Range	MHz	1695-1880	1850-1990	1920-2200	2300-2496	2496-2690
Gain	dBi	13.2	13.8	14.2	14.4	14.9
Azimuth Beamwidth 3dB	deg	70 +/- 5	65 +/- 5	63 +/- 2	67 +/- 4	63 +/- 3
Elevation Beamwidth 3dB	deg	20 +/- 1	19 +/- 1	17 +/- 1	15 +/- 1	13.4 +/- 0.3
Cross-Pol at Boresight	dB	24	27	25	25	24
F/B at 180 Copolar	dB	30	29	32	33	29
Electrical Downtilt	deg	5	5	5	5	5
First Upper Side Lobe	dB	13	13	13	13	13
VSWR	-	1.5:1	1.5:1	1.5:1	1.5:1	1.5:1
Return Loss	dB	-14	-14	-14	-14	-14
Cross Polar Isolation	dB	25	25	25	25	25
3rd Order PIM 2 x 43dBm	dB	- 153	- 153	- 153	- 153	- 153
Maximum CW Power per Port	Watts	50	50	50	50	50
Gain Over All Tilts	dBi	12.9 +/-0.3	13.3 +/-0.5	13.9 +/-0.3	14.2 +/-0.2	14.7 +/-0.2
Cross-Pol over Sector	dB	13	6	6	10	10
F/B at +/-30 Total Power	dB	21	22	22	24	23
Upper Side Lobe Peak to +20	dB	22	22	22	16	14

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ELECTRICAL SPECIFICATIONS

Electrical Specification Header		High Band Arrays (3300-4200) [Ports 5-8]			
Frequency Range	MHz	3300-3400	3400-3700	3700-4000	4000-4200
Gain	dBi	10.5	10.9	11.6	11.7
Azimuth Beamwidth 3dB	deg	69 +/- 2	65 +/- 7	64 +/- 9	55 +/- 11
Elevation Beamwidth 3dB	deg	37 +/- 3	34 +/- 4	30 +/- 5	28 +/- 3
Cross-Pol at Boresight	dB	23	22	18	19
F/B at 180 Copolar	dB	29	32	29	29
Electrical Downtilt	deg	5	5	5	5
First Upper Side Lobe	dB	16	16	12	12
VSWR	-	1.5:1	1.5:1	1.5:1	1.5:1
Return Loss	dB	-14	-14	-14	-14
Cross Polar Isolation	dB	25	25	25	25
3rd Order IMP 2 x 43dBm	dBc	/	-153	/	/
Maximum CW Power per Port	Watts	50	50	50	50
Gain Over All Tilts	dBi	10.2 +/- .2	10.4 +/- .5	11.1 +/- .5	11.3 +/- .4
Cross-Pol over Sector	dB	6	8	9	9
F/B at +/-30 Total Power	dB	21	21	21	20
Upper Side Lobe Peak to +20	dB	22	22	22	22

ELECTRICAL SPECIFICATIONS

Electrical Specification Header		High Band Array (5150-5925) [Ports 9-10]
Frequency Range	MHz	5150-5925
Gain	dBi	5.6
Azimuth Beamwidth 3dB	deg	68 +/- 9
Elevation Beamwidth 3dB	deg	26 +/- 3
Cross-Pol at Boresight	dB	13
F/B at 180 Copolar	dB	26
Electrical Downtilt	deg	0.0
First Upper Side Lobe	dB	15
VSWR	-	1.4:1
Return Loss	dB	-15.5
Cross Polar Isolation	dB	25
3rd Order PIM 2 x 43dBm	dBc	/
Maximum CW Power per Port	Watts	5
Gain Over All Tilts	dBi	4.6 +/- 1.0
Cross-Pol over Sector	dB	2
F/B at +/-30 Total Power	dB	18
Upper Side Lobe Peak to +20	dB	22

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ELECTRICAL SPECIFICATIONS

Electrical Specification Header	5 GHz FCC Power Requirements				
U-NII Band	-	U-NII 1	U-NII 2A	U-NII 2C	U-NII 3
Frequency	MHz	5150-5250	5250-5350	5470-5725	5725-5850
Max Input power per port to align with FCC Title 47 Part 15	Watts	1.0	.5	.5	.5

ELECTRICAL SPECIFICATIONS

Impedance	Ohm	50
Polarization	Deg	+/-45

MECHANICAL SPECIFICATIONS

Dimensions - H x W x D	mm (in)	609 x 283 x 181 (24 x 11.1 x 7.1)
Weight (Antenna Only)	kg (lb)	5.2 (11.5)
Weight (Mounting Hardware only)	kg (lb)	4.5 (9.9)
Packing size- HxWxD	mm (in)	730 x 370 x 330 (28.7 x 14.6 x 13)
Shipping Weight	kg (lb)	12.2 (26.9)
Connector type		10 x 4.3-10 Long Neck Female/Bottom
Radome Material / Color		ASA / 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	240 (160)
Wind Load @Rated Wind Front	N	85
Wind Load @Rated Wind Side	N	63
Wind Load @Rated Wind Rear	N	124

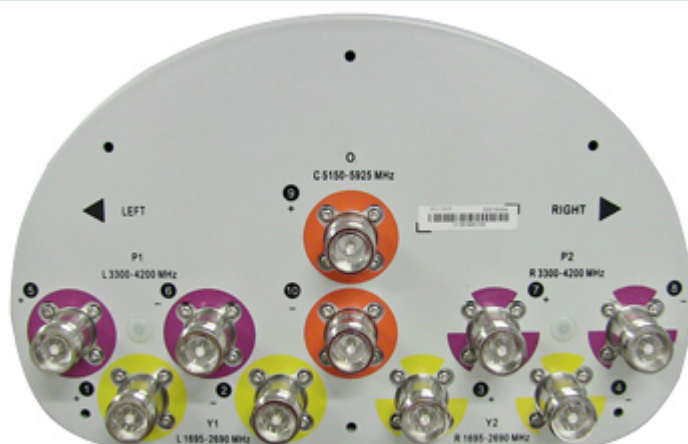
ORDERING INFORMATION

Model Number	Configuration	Mounting Hardware	Mounting pipe Diameter	Shipping Weight
SP-LLYYZ06-F0	Fixed Tilt Panel	APM40-6	50-120mm (2-4.72 in)	12.2 kg (26.9lbs)

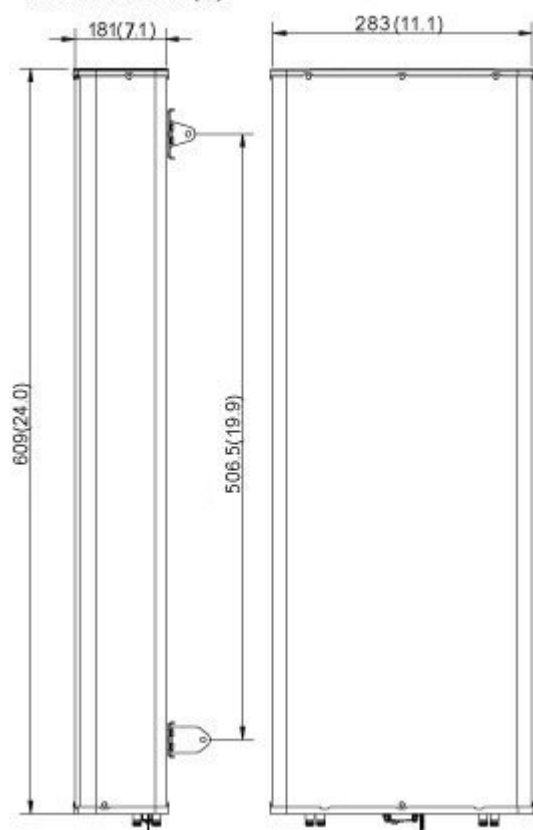
Port	Array	Frequency
1	Y1	1695-2690
2		1695-2690
3	Y2	1695-2690
4		1695-2690
5	P1	3300-4200
6		3300-4200
7	P2	3300-4200
8		3300-4200
9	O1	5150-5925
10		5150-5925

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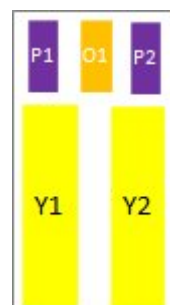
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Dimensions: mm (in)



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



External Document Links

[APM40_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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