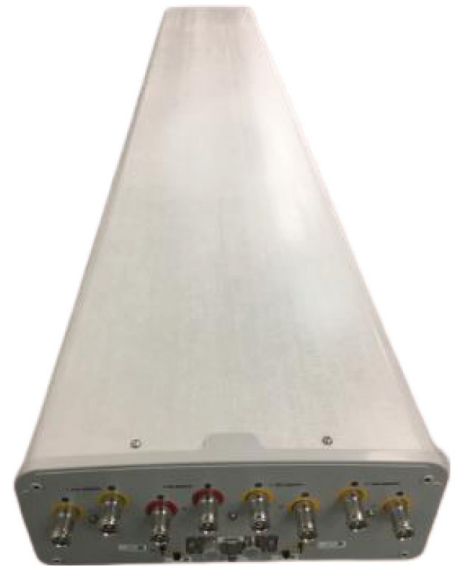


## APXVB3L26B2\_43-C-I20

### Features

- 2 ports / 1 cross pol system 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



PRODUCT OVERVIEW	Frequency Range (MHz)	(1x) 690-960		(3x) 1695-2690		
	Array	■ R1	■ Y1	■ Y2	■ Y3	
	Connector	1-2	3-4	5-6	7-8	
		8 PORTS				
	Polarization	XPOL				
	Azimuth Beamwidth (avg)	65°	65°			
	Electrical Downtilt	2-12°	2-10°			
	Dimensions	2498 x 398 x 158 mm (98.3 x 15.7 x 6.2 in)				

### ORDERING OPTIONS Select from the following ordering options

ANTENNA MODEL NUMBER	CONFIGURATION	MOUNTING HARDWARE	MOUNTING PIPE DIAMETER	SHIPPING WEIGHT
APXVB3L26B2_43-C-I20	ACU-I20-H12I Internal RET Included	APM50-H2 Beam Tilt Kit Included	50-125 mm (2.0-4.9 in)	42.2 kg (93 lbs)



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## APXVB3L26B2\_43-C-I20

### ELECTRICAL SPECIFICATIONS

■ R1

Frequency Range	MHz	690-960			
	MHz	690-806	790-894	880-960	
Polarization	---	±45°			
Gain	Over all Tilts	dBi	15.5 ± 0.5	16.1 ± 0.5	16.1 ± 0.5
	Max Gain	dBi	16.0	16.6	16.6
Azimuth Beamwidth (3 dB)	degrees	67.1° ± 1.2°	64.6° ± 1.7°	63.7° ± 1.5°	
Elevation Beamwidth (3 dB)	degrees	8.9° ± 1°	8° ± 0.5°	7.2° ± 0.5°	
Electrical Downtilt	degrees	2-12°			
Impedance	Ohms	50Ω			
VSWR (Return Loss)	---	1.5:1 (-14 dB)			
Passive Intermodulation	dBc	-153 (3rd Order for 2x20 W Carriers)			
Front-to-Back Ratio, Total Power, ± 30°	dB	22	25	25	
First Upper Side Lobe Suppression	dB	16.3	15.7	16.2	
Cross Polar Discrimination Over Sector	dB	8	9	8	
Cross Polar Discrimination (XPD) at Mechanical Boresight (0°)	dB	24	25	25	
Maximum Effective Power Per Port	Watts	250 W			
Cross Polar Isolation	dB	28			
Interband Isolation	dB	28			

Specifications follow BASTA guidelines.

### ELECTRICAL SPECIFICATIONS

■ Y1

Frequency Range	MHz	1695-2690					
	MHz	1695-1880	1850-1990	1920-2170	2300-2400	2490-2690	
Polarization	---	±45°					
Gain	Over all Tilts	dBi	17.5 ± 0.5	18.1 ± 0.5	18.8 ± 0.6	19.2 ± 0.5	19 ± 1
	Max Gain	dBi	18.0	18.6	19.4	19.7	20
Azimuth Beamwidth (3 dB)	degrees	68.1° ± 3.8°	67.8° ± 1.8°	66.8° ± 4°	58.9° ± 2.6°	55.8° ± 2.6°	
Elevation Beamwidth (3 dB)	degrees	5.3° ± 0.5°	4.9° ± 0.2°	4.4° ± 0.5°	4° ± 0.1°	4° ± 0.1°	
Electrical Downtilt	degrees	2-10°					
Impedance	Ohms	50Ω					
VSWR (Return Loss)	---	1.5:1 (-14 dB)					
Passive Intermodulation	dBc	-153 (3rd Order for 2x20 W Carriers)					
Front-to-Back Ratio, Total Power, ± 30°	dB	24.6	26	28	24	20	
First Upper Side Lobe Suppression	dB	16	15.5	18.5	16.4	18.6	
Cross Polar Discrimination Over Sector	dB	10.6	10	9.8	7	1.4	
Cross Polar Discrimination (XPD) at Mechanical Boresight (0°)	dB	24	25.7	22.7	18.6	21.6	
Maximum Effective Power Per Port	Watts	250 W					
Cross Polar Isolation	dB	28					
Interband Isolation	dB	28					

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## APXVB3L26B2\_43-C-I20

### ELECTRICAL SPECIFICATIONS

■ Y2

Frequency Range		MHz	1695-2690				
		MHz	1695-1880	1850-1990	1920-2170	2300-2400	2490-2690
Polarization		---	±45°				
Gain	Over all Tilts	dBi	17.3 ± 0.5	18 ± 0.1	18.9 ± 1	18.4 ± 0.5	17.8 ± 0.5
	Max Gain	dBi	17.8	18.1	19.9	18.9	18.3
Azimuth Beamwidth (3 dB)		degrees	60.9° ± 3°	60.5° ± 1.7°	56.6° ± 3.4°	53.2° ± 2.7°	58.4° ± 3.5°
Elevation Beamwidth (3 dB)		degrees	5.3° ± 0.5°	5° ± 0.1°	4.6° ± 0.5°	4° ± 0.1°	4° ± 0.1°
Electrical Downtilt		degrees	2-10°				
Impedance		Ohms	50Ω				
VSWR (Return Loss)		---	1.5:1 (-14 dB)				
Passive Intermodulation		dBc	-153 (3rd Order for 2x20 W Carriers)				
Front-to-Back Ratio, Total Power, ± 30°		dB	25.5	26.8	27	26.8	25
First Upper Side Lobe Suppression		dB	16.6	20	19.7	18.7	17
Cross Polar Discrimination Over Sector		dB	6	7	6	0.6	2
Cross Polar Discrimination (XPD) at Mechanical Boresight (0°)		dB	18.3	20.2	19.4	17.5	23.7
Maximum Effective Power Per Port		Watts	250 W				
Cross Polar Isolation		dB	28				
Interband Isolation		dB	28				

Specifications follow BASTA guidelines.

### ELECTRICAL SPECIFICATIONS

■ Y3

Frequency Range		MHz	1695-2690				
		MHz	1695-1880	1850-1990	1920-2170	2300-2400	2490-2690
Polarization		---	±45°				
Gain	Over all Tilts	dBi	17.5 ± 0.5	18 ± 0.1	18.6 ± 0.5	18.9 ± 0.1	18.9 ± 0.5
	Max Gain	dBi	18.0	18.1	19.1	19.0	19.4
Azimuth Beamwidth (3 dB)		degrees	67.6° ± 3.6°	67.2° ± 1.5°	66.5° ± 3.4°	58.9° ± 2.7°	55.7° ± 2.6°
Elevation Beamwidth (3 dB)		degrees	5.2° ± 0.5°	5° ± 0.1°	4.5° ± 0.5°	4° ± 0.1°	4° ± 0.1°
Electrical Downtilt		degrees	2-10°				
Impedance		Ohms	50Ω				
VSWR (Return Loss)		---	1.5:1 (-14 dB)				
Passive Intermodulation		dBc	-153 (3rd Order for 2x20 W Carriers)				
Front-to-Back Ratio, Total Power, ± 30°		dB	24.5	27	28	24.9	20
First Upper Side Lobe Suppression		dB	14.2	16	18.4	15.3	16.5
Cross Polar Discrimination Over Sector		dB	9	9	9.3	7.8	1.5
Cross Polar Discrimination (XPD) at Mechanical Boresight (0°)		dB	26	27.7	23.6	19.6	24
Maximum Effective Power Per Port		Watts	250 W				
Cross Polar Isolation		dB	28				
Interband Isolation		dB	28				

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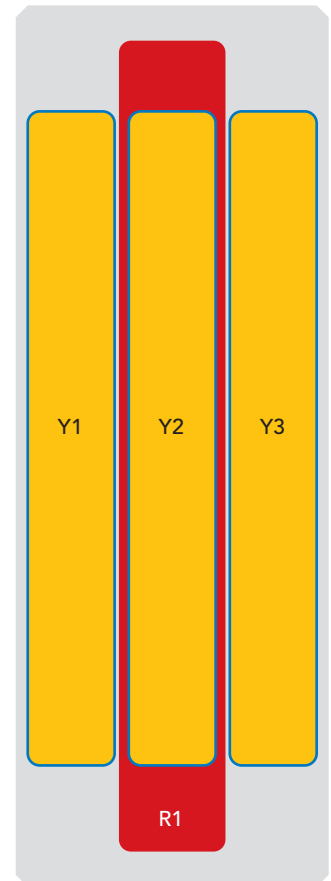
# APXVB3L26B2\_43-C-I20

## BOTTOM VIEW - LABELING



## ARRAY LAYOUT

ARRAY	FREQUENCY	CONNECTOR	CONNECTOR TYPE	RET	AISG RET UID
<span style="color: red;">■</span> R1	690-960 MHz	1-2	(2x) 4.3-10 Female	R1	RFxxxxxxxxxx-R1
<span style="color: yellow;">■</span> Y1	1695-2690 MHz	3-4	(2x) 4.3-10 Female	Y1	RFxxxxxxxxxx-Y1
<span style="color: yellow;">■</span> Y2	1695-2690 MHz	5-6	(2x) 4.3-10 Female	Y2	RFxxxxxxxxxx-Y2
<span style="color: yellow;">■</span> Y3	1695-2690 MHz	7-8	(2x) 4.3-10 Female	Y3	RFxxxxxxxxxx-Y3



The illustration is not shown to scale.

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## APXVB3L26B2\_43-C-I20

### MECHANICAL SPECIFICATIONS

Length	mm (in)	2498 (98.3)
Width	mm (in)	398 (15.7)
Depth	mm (in)	158 (6.2)
Net Weight - Antenna Only	kg (lbs)	29.5 (65)
Net Weight - Mounting Hardware Only	kg (lbs)	5.5 (12.1)
Wind Load Rated at 150 km/h (93 mph)	Front	N (lbf) 915 (206)
	Side	N (lbf) 450 (101)
	Rear	N (lbf) 1025 (230)
Survival Wind Speed / Rated Wind Speed	km/h (mph)	200 (150)
Connector Type	--	(8x) 4.3-10 Female, (2x) AISG Connectors (1 Male, 1 Female) at Bottom
Radome Color	---	Light Grey RAL7035
Radome Material	---	Fiberglass
Lightning Protection	---	DC Ground
<b>Shipping</b>	Packing Size (Length x Width x Depth)	mm (in) 2698 x 493 x 278 (106.2 x 19.4 x 10.9)
	Shipping Weight	kg (lbs) 42.2 (93)

### ENVIRONMENTAL SPECIFICATIONS

Environmental Standard	---	ETS 300 019
Operating Temperature	degrees	-40° to +60° C (-40° to +140° F)
Product Environmental Compliance	---	Product is RoHS Compliant

## APXVB3L26B2\_43-C-I20

### ACCESSORIES

Accessories may be ordered separately unless otherwise indicated.

ITEM	MODEL NUMBER	WEIGHT
Beam Tilt Mounting Bracket Kit for Pole Diameter 50-125 mm (2.0-4.9 in) <i>Shipped with antenna</i>	APM50-H2	5.5 kg (12.1 lbs)

### INSTALLATION

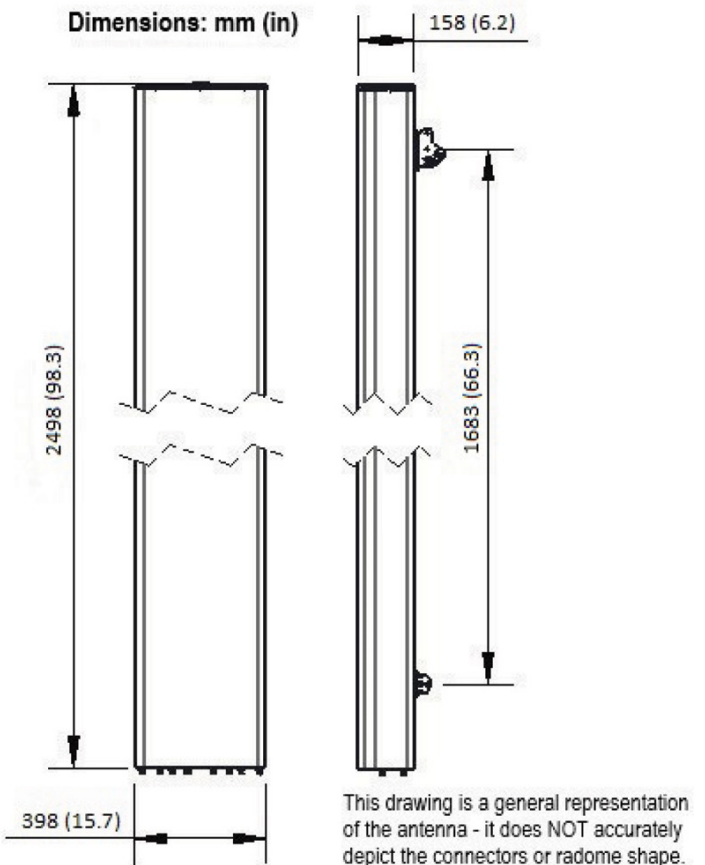
Please read all installation notes before installing product.



- Always attach the antenna using all mounting points.
- Do not install antenna with the connectors facing upwards.

### EXTERNAL DOCUMENT LINKS

[APM50 Mounting Kit Series Installation Instructions](#)



### NOTES

- Specifications follow BASTA guidelines.
- For additional mounting information, please check **External Document Links**.
- For Radiating Patterns: [Request pattern files](#)