

## APXVBLL26B2\_43-C-I20

### Features

- 2 ports / 1 cross pol system in low band (690-960 MHz)
- 4 ports / 2 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		(2x) 1695-2690	
	Array	<div></div> R1		<div></div> Y1	<div></div> Y2
	Connector	1-2		3-4	5-6
		6 PORTS			
	Polarization	XPOL			
	Azimuth Beamwidth (avg)	65°		65°	
	Electrical Downtilt	2-12°		2-10°	
	Dimensions	2690 x 380 x 156 mm (105.9 x 15.0 x 6.1 in)			

### ORDERING OPTIONS

Select from the following ordering options

ANTENNA MODEL NUMBER	CONFIGURATION	MOUNTING HARDWARE	MOUNTING PIPE DIAMETER	SHIPPING WEIGHT
APXVBLL26B2_43-C-I20	ACU-I20-H12I Internal RET Included	APM50-H2 Beam Tilt Kit Included	50-125 mm (2.0-4.9 in)	36.3 kg (80 lbs)

## APXVBLL26B2\_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	16.3 ± 0.7	17.0 ± 0.4	17.4 ± 0.3
	Max Gain	dBi	17.0	17.4	17.7
Azimuth Beamwidth (3 dB)		degrees	66.2° ± 1.5°	64.7° ± 1.0°	61.4° ± 2.5°
Elevation Beamwidth (3 dB)		degrees	8.5° ± 0.5°	7.7° ± 0.5°	7° ± 0.4°
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	23.9	24.2	25.3
First Upper Side Lobe Suppression		dB	16.2	16.2	16.5
Cross Polar Discrimination Over Sector		dB	8.8	9.4	6.7
Cross Polar Discrimination (XPD) at Mechanical Boresight (0°)		dB	28.6	27.4	25.4
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	16.9 ± 0.5	17.7 ± 0.4	17.8 ± 0.4	17.8 ± 0.3	18.1 ± 0.4
	Max Gain	dBi	17.4	18.1	18.2	18.1	18.5
Azimuth Beamwidth (3 dB)		degrees	70.7° ± 7.5°	63.3° ± 5.6°	64.1° ± 4.8°	64.7° ± 2.9°	63.9° ± 1.9°
Elevation Beamwidth (3 dB)		degrees	5.3° ± 0.3°	5.0° ± 0.3°	4.7° ± 0.4°	4.0° ± 0.2°	3.8° ± 0.2°
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	22	26.8	27	25.1	19.5
First Upper Side Lobe Suppression		dB	13.9	13.5	13.6	14.4	18.6
Cross Polar Discrimination Over Sector		dB	8.6	7.5	8.1	6.8	1.6
Cross Polar Discrimination (XPD) at Mechanical Boresight (0°)		dB	23.9	24	21.3	25.7	28.2
Maximum Effective Power Per Port		Watts	250 W				
Cross Polar Isolation		dB	28				
Interband Isolation		dB	28				

Specifications follow BASTA guidelines.

Quoted performance parameters are provided to offer typical, peak or range values only and may vary as a result of normal testing, manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage to this product. Improvements to products may be made without notice.

## APXVBLL26B2\_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	17.0 ± 0.5	17.8 ± 0.4	17.9 ± 0.4	18.0 ± 0.3	18.3 ± 0.4
	Max Gain	dBi	17.5	18.2	18.3	18.3	18.7
Azimuth Beamwidth (3 dB)		degrees	69.8° ± 8.5°	63° ± 5.1°	63.5° ± 3.7°	64.5° ± 3.2°	63.8° ± 2.1°
Elevation Beamwidth (3 dB)		degrees	5.3° ± 0.4°	5.0° ± 0.4°	4.7° ± 0.5°	4.0° ± 0.2°	3.8° ± 0.2°
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	21.2	25.7	27.4	24.1	20.0
First Upper Side Lobe Suppression		dB	14.2	13.9	14.3	16.9	19.3
Cross Polar Discrimination Over Sector		dB	10.2	6.7	7.1	7.1	1.5
Cross Polar Discrimination (XPD) at Mechanical Boresight (0°)		dB	25.9	24.9	24.5	20.4	23.9
Maximum Effective Power Per Port		Watts	250 W				
Cross Polar Isolation		dB	28				
Interband Isolation		dB	28				

Specifications follow BASTA guidelines.

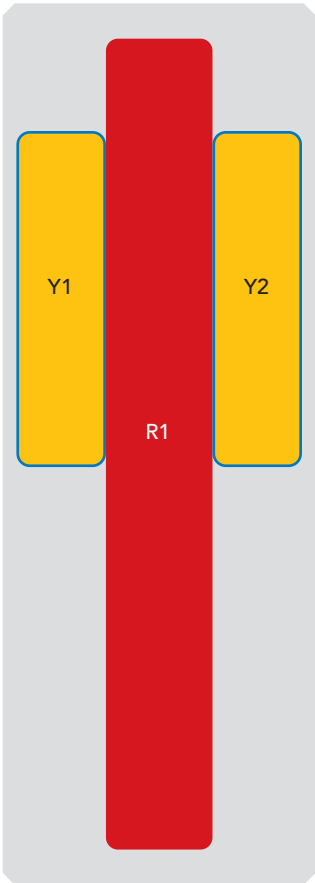
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## BOTTOM VIEW - LABELING



## 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



The illustration is not shown to scale.

## APXVBLL26B2\_43-C-I20

### MECHANICAL SPECIFICATIONS

Length		mm (in)	2690 (105.9)
Width		mm (in)	380 (15.0)
Depth		mm (in)	156 (6.1)
Net Weight - Antenna Only		kg (lbs)	28.5 (62.8)
Net Weight - Mounting Hardware Only		kg (lbs)	5.5 (12.1)
Wind Load Rated at 150 km/h (93 mph)	Front	N (lbf)	870 (196)
	Side	N (lbf)	450 (101)
	Rear	N (lbf)	970 (218)
Survival Wind Speed / Rated Wind Speed		km/h (mph)	200 (150)
Connector Type		--	(6x) 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)	2890 x 473 x 278 (113.8 x 18.6 x 10.9)
	Shipping Weight	kg (lbs)	36.3 (80)

### 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

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ACCESSORIES Accessories may be ordered separately unless otherwise indicated.

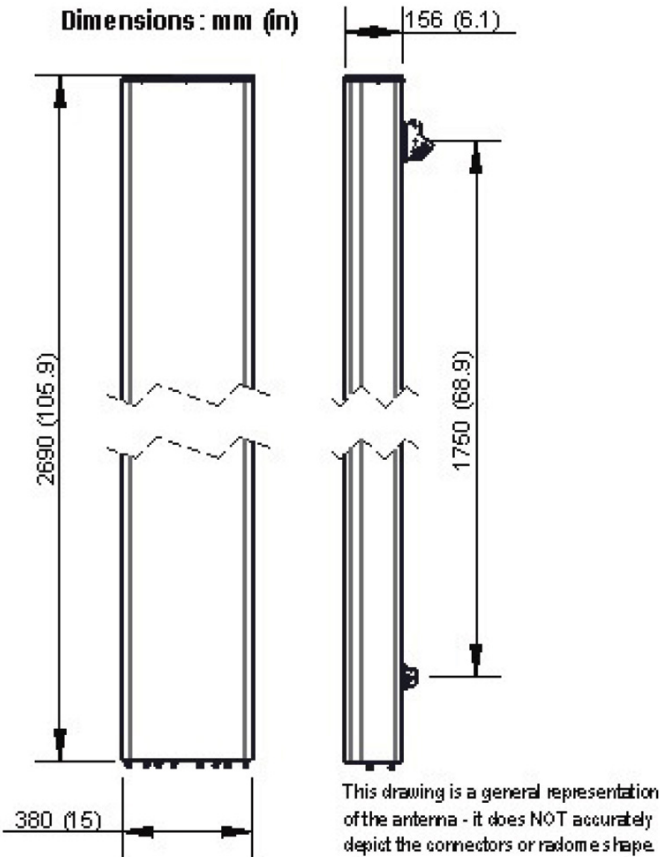
ITEM	MODEL NUMBER	WEIGHT
Beam Tilt Mounting Bracket Kit for Pole Diameter 50-125 mm (2.0-4.9 in) <i>Shipped with antenna</i>	APM50-H2	5.5 kg (12.1 lbs)

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](#)