

(2x) 698-960 | (2x) 1710-2690 MHz

65° 2580 mm INTEGRATED RET

# APXVBBLL26B2\_43-C-I20

### Features

- 4 ports / 2 cross pol systems in low band (698-960 MHz)
- 4 ports / 2 cross pol systems in high band (1710-2690 MHz)
- Integrated and field replaceable SRET
- Compliant with AISG v2.0 and 3GPP

	Frequency Range (MHz)	(2x) 69	28-960	(2x) 1710-2690			
OVERVIEW	Array	<b>R</b> 1	<b>R</b> 2	<b>Y</b> 1	¥2		
	Connector	1-2	3-4	5-6	7-8		
		8 PORTS					
	Polarization	XPOL					
PRODUCT	Azimuth Beamwidth (avg)	6	5°	65°			
<u> </u>	Electrical Downtilt	2-12° 2-12°					
	Dimensions		2580 x 469 x 205 mm	(101.6 x 18.5 x 8.1 in)			

#### **ORDERING OPTIONS** Select from the following ordering options

ANTENNA	CONFIGURATION	MOUNTING	MOUNTING PIPE	SHIPPING	MOUNTING
MODEL NUMBER		HARDWARE	DIAMETER	WEIGHT	HARDWARE WEIGHT
APXVBBLL26B2_43-C-I20	ACU-120-B4 Internal RET Included	APM50-B1 Beam Tilt Kit Included	50-110 mm (2.0-4.3 in)	49.9 kg (110.1 lbs)	4.5 kg (9.9 lbs)





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📕 R1 📕 R2

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### **ELECTRICAL SPECIFICATIONS**

Frequency Range		MHz		698-960				
		MHz	698-806 790-894 880-					
Polarization	n		±45°					
Gain	Over all Tilts	dBi	16.5 ± 0.5	16.9 ± 0.3	17.1 ± 0.5			
	Max Gain	dBi	17.0	17.2	17.6			
Azimuth Be	eamwidth (3 dB)	degrees	64.2° ± 6.7°	62.4° ± 3.6°	61.1° ± 4.6°			
Elevation E	Beamwidth (3 dB)	degrees	8.6° ± 0.7°	7.8° ± 0.4°	7.1° ± 0.4°			
Electrical Downtilt		degrees	2-12°					
Impedance		Ohms	50Ω					
VSWR (Return Loss)			1.5:1 (-14 dB)					
Passive Intermodulation 3rd Order, 2 x 43dBm		dBc	-153					
Front-to-Ba	ack Ratio, Total Power, ± 30°	dB	23.4	24.6	27.4			
First Upper	r Side Lobe Suppression	dB	18.7	18.4	18.8			
Cross Pola	r Discrimination Over Sector	dB	12.9	12.1	12.1			
Cross Polar Discrimination at Boresight		dB	24.1 23.3 21.3		21.3			
Maximum	Effective Power Per Port	Watts	300 W					
Cross Polar Isolation		dB	26					
Interband I	Isolation	dB	26					

Specifications follow BASTA guidelines.

ELECTRICAL SPECIFICATIONS					📕 Y1 📕 Y2			
Frequency Range		MHz			1710-2690			
		MHz	1710-1880	1850-1990	1920-2200	2200-2490	2500-2690	
Polarization	1				±45°			
<u> </u>	Over all Tilts	dBi	17.4 ± 0.5	17.5 ± 0.5	17.2 ± 0.7	16.6 ± 0.5	17.1 ± 0.6	
Gain	Max Gain	dBi	17.9	18.0	17.9	17.1	17.7	
Azimuth Be	eamwidth (3 dB)	degrees	66.7° ± 4.8°	63.3° ± 5.7°	62.9° ± 5.8°	63.6° ± 6.2°	57.0° ± 7.1°	
Elevation B	Beamwidth (3 dB)	degrees	6.6° ± 0.4°	6.2° ± 0.3°	5.9° ± 0.5°	5.3° ± 0.2°	5.0° ± 0.3°	
Electrical D	Electrical Downtilt		2-12°					
Impedance		Ohms	50Ω					
VSWR (Retu	VSWR (Return Loss)		1.5:1 (-14 dB)					
Passive Inte 3rd Order,	ermodulation 2 x 43dBm	dBc	-153					
Front-to-Ba	ack Ratio, Total Power, ± 30°	dB	24.5	24.6	24.0	22.5	21.8	
First Upper	Side Lobe Suppression	dB	13.8	14.9	15.7	21.8	21.9	
Cross Polar	Cross Polar Discrimination Over Sector		9.6	9.3	7.2	3.6	2.8	
Cross Polar Discrimination at Boresight		dB	23.5	23.4	19.8	20.4	20.0	
Maximum Effective Power Per Port		Watts	200 W					
Cross Polar Isolation		dB	26					
Interband Isolation		dB	26					

Specifications follow BASTA guidelines.



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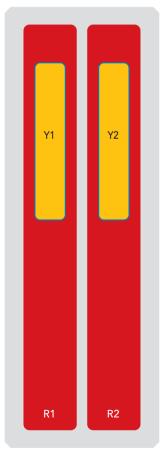
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### **BOTTOM VIEW - LABELING**



#### **ARRAY LAYOUT**

ARRAY	FREQUENCY	CONNECTOR	CONNECTOR TYPE	RET	AISG RET UID
R1	698-960 MHz	1-2	(2x) 4.3-10 Female	R1	RFxxxxxxxxx-R1
<b>R</b> 2	698-960 MHz	3-4	(2x) 4.3-10 Female	R2	RFxxxxxxxxxx-R2
<b>–</b> Y1	1710-2690 MHz	5-6	(2x) 4.3-10 Female	Y1	RFxxxxxxxxx-Y1
<b>Y</b> 2	1710-2690 MHz	7-8	(2x) 4.3-10 Female	Y2	RFxxxxxxxxxx-Y2



The illustration is not shown to scale.



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#### **MECHANICAL SPECIFICATIONS**

<b>Shipping</b> Packing Size (Length x Width x Depth)		mm (in)	2850 x 540 x 280 (112.2 x 21.2 x 11.0)	
Lightning Protection			Direct Ground	
Radome Material				Fiberglass
Radome Color			Light Grey RAL7035	
Connector Type			(8x) 4.3-10 Female, (2x) AISG Connectors (1 Male, 1 Female) at Bottom	
Survival Wind Speed		km/h (mph)	200 (124)	
150 km/h (9	93 mph) Rear		N (lbf)	747 (168)
Rated at		Side	N (lbf)	744 (167)
Wind Load Front		N (lbf)	716 (161)	
Net Weight - Antenna Only		kg (lbs)	36.7 (80.9)	
Depth			mm (in)	205 (8.1)
Width			mm (in)	469 (18.5)
Length			mm (in)	2580 (101.6)

#### **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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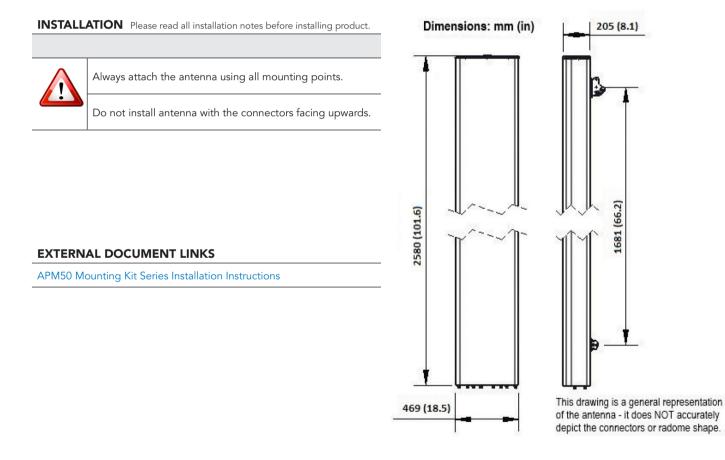
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ACCESSORIES Accessories may be ordered separately unless otherwise indicated.

ITEM	MODEL NUMBER	WEIGHT
Beam Tilt Mounting Bracket Kit for Pole Diameter 50-110 mm (2.0-4.3 in) Refer to ordering options	APM50-B1	4.5 kg (9.9 lbs)



#### NOTES

Specifications follow BASTA guidelines.

For additional mounting information, please check External Document Links.

For Radiating Patterns: Request pattern files