

APXVB3L26B_43-C-I20

Features

- 2 ports / 1 cross pol system in low band (698-960 MHz)
- 6 ports / 3 cross pol systems in high band (1710-2690 MHz)
- Integrated and field replaceable SRET
- ACU HW version: 2.02
- Compliant with AISG v2.0 and 3GPP



	Frequency Range (MHz)	(1x) 698-960						
OVERVIEW	Array	■ R1	■ Y1	■ Y2	Y3			
	C	1-2	3-4	5-6	7-8			
	Connector	8 PORTS						
	Polarization	XPOL						
PRODUCT	Azimuth Beamwidth (avg)	65°	65°					
а.	Electrical Downtilt	2-11° 2-11°						
	Dimensions	2690 x 350 x 200 mm (105.9 x 13.8 x 7.9 in)						

ORDERING OPTIONS Select from the following ordering options

ANTENNA MODEL NUMBER	CONFIGURATION	MOUNTING HARDWARE	MOUNTING PIPE DIAMETER	SHIPPING WEIGHT	
APXVB3L26B_43-C-I20	ACU-I20-B4 Internal RET Included	APM50-B1 Beam Tilt Kit Included	50-110 mm (2.0-4.3 in)	43.5 kg (95.9 lbs)	







APXVB3L26B_43-C-I20

ELECTRICA	AL SPECIFICATIONS			■ R1				
Frequency Range		MHz	Hz 698-960					
		MHz	698-806 790-894					
Polarization			±45°					
Carr	Over all Tilts	dBi	17.2 ± 0.3	17.2 ± 0.2	17.3 ± 0.3			
Gain	Max Gain	dBi	17.5	17.4	17.6			
Azimuth Beamwidth (3 dB)		degrees	68.3° ± 1.7°	67.3° ± 1.3°	69.3° ± 0.8°			
Elevation Beamwidth (3 dB)		degrees	7.8° ± 1.1°	7.7° ± 0.5°	6.9° ± 0.5°			
Electrical Downtilt		degrees	2-11°					
Impedance		Ohms	50Ω					
VSWR (Retur	n Loss)		1.5:1 (-14 dB)					
Passive Inter	modulation	dBc	-150 (3rd Order for 2x20 W Carriers)					
Front-to-Bac	k Ratio, Total Power, ± 30°	dB	25.1	24.6	24.6			
First Upper S	Side Lobe Suppression	dB	16.7	17.7	15.4			
Cross Polar [Discrimination Over Sector	dB	12.3	11	12.6			
Cross Polar Discrimination (XPD) at Mechanical Boresight (0°)		dB	27.2	26.7	27.2			
Maximum Effective Power Per Port Watts			350 W					
Cross Polar Isolation dB			26					
Interband Iso	olation	dB	26					

Specifications follow BASTA guidelines.

ELECTRICAL SPECIFICATIONS

Y1

Frequency Range		MHz			1710-2690			
		MHz	1710-1880	1850-1990	1920-2170	2300-2400	2490-2690	
Polarization					±45°	,		
C	Over all Tilts	dBi	17.2 ± 0.5	17.3 ± 0.5	17.7 ± 0.7	17.2 ± 0.6	17.2 ± 0.9	
Gain	Max Gain	dBi	17.7	17.8	18.4	17.8	18.1	
Azimuth Beamwidth (3 dB)		degrees	60.5° ± 5.5°	64.5° ± 2.9°	64.1° ± 5.4°	67.3° ± 6.3°	58.4° ± 4.5°	
Elevation Beamwidth (3 dB)		degrees	8.1° ± 0.6°	7.4° ± 0.6°	7° ± 0.6°	6.1° ± 0.3°	5.6° ± 0.4°	
Electrical Downtilt		degrees	2-11°					
Impedance		Ohms	50Ω					
VSWR (Retur	VSWR (Return Loss)		1.5:1 (-14 dB)					
Passive Inter	modulation	dBc	-150 (3rd Order for 2x20 W Carriers)					
Front-to-Bac	k Ratio, Total Power, ± 30°	dB	20.2	23.8	24	25.4	23.6	
First Upper S	Side Lobe Suppression	dB	17.6	16.4	16.4	17	13.6	
Cross Polar D	Discrimination Over Sector	dB	7.7	8.9	7	7.3	0.8	
Cross Polar Discrimination (XPD) at Mechanical Boresight (0°)		dB	21.6	22	18.2	14.3	15.8	
Maximum Effective Power Per Port \		Watts	250 W					
Cross Polar Isolation		dB			26			
Interband Iso	olation	dB			26			

Specifications follow BASTA guidelines.



APXVB3L26B_43-C-I20

ELECTRIC	CAL SPECIFICATIONS				■ Y2			
Frequency	Range	MHz			1710-2690			
		MHz	1710-1880	1850-1990	1920-2170	2300-2400	2490-2690	
Polarization					±45°			
C	Over all Tilts	dBi	17.0 ± 0.6	17.2 ± 0.4	17.4 ± 0.6	16.9 ± 0.6	17.1 ± 0.7	
Gain	Max Gain	dBi	17.6	17.6	18.0	17.5	17.8	
Azimuth Beamwidth (3 dB)		degrees	63.8° ± 7°	66.5° ± 2.6°	66.7° ± 4.1°	67.2° ± 5.4°	60° ± 3°	
Elevation Beamwidth (3 dB)		degrees	6.9° ± 0.4°	6.3° ± 0.4°	6° ± 0.6°	5.2° ± 0.3°	4.8° ± 0.3°	
Electrical Downtilt		degrees	2-11°					
Impedance		Ohms	50Ω					
VSWR (Ret	urn Loss)		1.5:1 (-14 dB)					
Passive Inte	ermodulation	dBc	-150 (3rd Order for 2x20 W Carriers)					
Front-to-Ba	ack Ratio, Total Power, ± 30°	dB	21.2	23.5	24.2	23.5	22.2	
First Uppe	r Side Lobe Suppression	dB	15.1	16.8	17.3	19.6	15.7	
Cross Polar Discrimination Over Sector		dB	8.3	8.2	7.8	10.3	0.8	
Cross Polar Discrimination (XPD) at Mechanical Boresight (0°)		dB	19.8	19.4	20.1	20.7	19.8	
Maximum Effective Power Per Port Watt		Watts	250 W					
Cross Pola	r Isolation	dB			26			

Specifications follow BASTA guidelines.

ELECTRICAL SPECIFICATIONS

Interband Isolation

dB

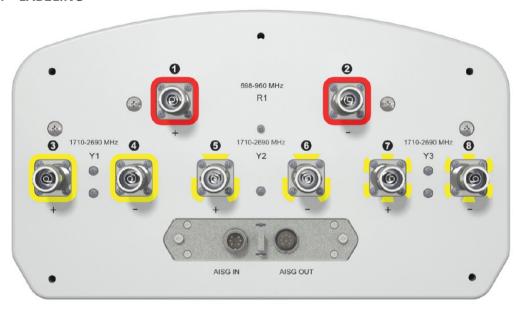
Vo
13

Frequency Range		MHz	1710-2690						
		MHz	1710-1880	1850-1990	1920-2170	2300-2400	2490-2690		
Polarization			±45°						
Gain	Over all Tilts	dBi	17.0 ± 0.5	17.3 ± 0.4	17.8 ± 0.8	17.2 ± 0.8	17.2 ± 0.9		
Gain	Max Gain	dBi	17.5	17.7	18.6	18.0	18.1		
Azimuth Bea	mwidth (3 dB)	degrees	60.1° ± 5°	64.6° ± 3.2°	63.4° ± 6.3°	67.6° ± 7.6°	58.3° ± 3.9°		
Elevation Beamwidth (3 dB)		degrees	8.3° ± 0.6°	7.5° ± 0.6°	7° ± 0.6°	6.2° ± 0.3°	5.7° ± 0.4°		
Electrical Downtilt		degrees	2-11°						
Impedance		Ohms	50Ω						
VSWR (Return Loss)			1.5:1 (-14 dB)						
Passive Inter	modulation	dBc	-150 (3rd Order for 2x20 W Carriers)						
Front-to-Back	k Ratio, Total Power, ± 30°	dB	21.4	23	23.5	24.7	23.9		
First Upper S	Side Lobe Suppression	dB	16.6	14.4	15.1	15.8	13.3		
Cross Polar D	Discrimination Over Sector	dB	8.1	8.6	6.6	7.5	1.6		
Cross Polar Discrimination (XPD) at Mechanical Boresight (0°)		dB	20	19.2	17.6	17.4	18.1		
Maximum Effective Power Per Port		Watts	250 W						
Cross Polar Isolation		dB			26				
Interband Isc	plation	dB			26				

Specifications follow BASTA guidelines.

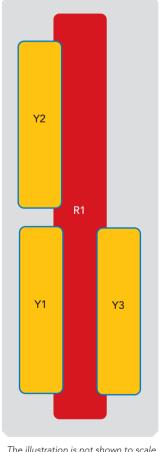
APXVB3L26B_43-C-I20

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	RFxxxxxxxxxxx-R1
■ Y1	1710-2690 MHz	3-4	(2x) 4.3-10 Female	Y1	RFxxxxxxxxxxx-Y1
■ Y2	1710-2690 MHz	5-6	(2x) 4.3-10 Female	Y2	RFxxxxxxxxxxx-Y2
■ Y3	1710-2690 MHz	7-8	(2x) 4.3-10 Female	Y3	RFxxxxxxxxxxx-Y3



The illustration is not shown to scale.



APXVB3L26B_43-C-I20

MECHANICAL SPECIFICATIONS

Amphenol

ANTENNA SOLUTIONS

Length	Length			2690 (105.9)	
Width	Width			350 (13.8)	
Depth			mm (in)	200 (7.9)	
Net Weight - Antenna Only			kg (lbs)	32.5 (71.7)	
Net Weight - Mounting Hardware Only		kg (lbs)	4.5 (9.9)		
Wind Load Front		N (lbf)	1550 (348)		
Rated at		Side	N (lbf)	1003 (225)	
150 km/h (9	'3 mph)	Rear	N (lbf)	1923 (432)	
Survival Wir	nd Speed / Rated	Wind Speed	km/h (mph)	200 (150)	
Connector	Гуре			(8x) 4.3-10 Female, (2x) AISG Connectors (1 Male, 1 Female) at Bottom	
Radome Co	lor			Light Grey RAL7035	
Radome Material			Fiberglass		
Lightning Protection			DC Ground		
Chii.	Packing Size (Le	ength x Width x Depth)	mm (in)	2940 x 445 x 295 (115.7 x 17.5 x 11.6)	
Shipping	Shipping Weig	ht	kg (lbs)	43.5 (95.9)	

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



APXVB3L26B_43-C-I20

ACCESSORIES Accessories may be ordered separately unless otherwise indicated.

ITEM	MODEL NUMBER	WEIGHT
Beam Tilt Mounting Bracket Kit for Pole Diameter 50-110 mm (2.0-4.3 in) Shipped with antenna	APM50-B1	4.5 kg (9.9 lbs)

INSTALLATION Please read all installation notes before installing product.

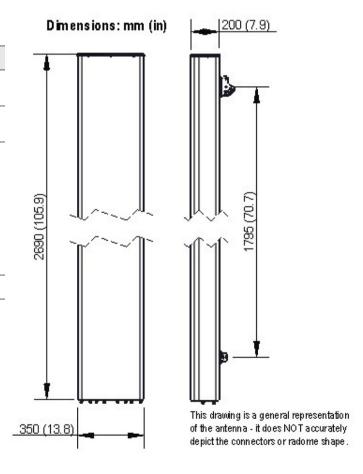


Always attach the antenna using all mounting points.

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