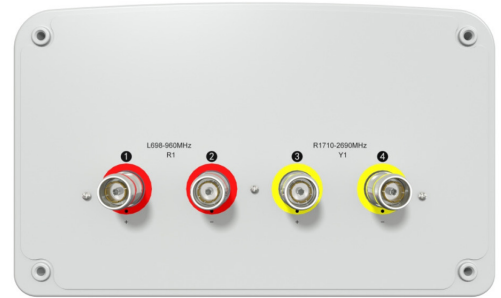


## APXBL04H\_43-CT0

### Features

- 2 ports / 1 cross pol system in low band (698-960 MHz)
- 2 ports / 1 cross pol system in high band (1710-2690 MHz)
- Fixed Tilt 0°



PRODUCT OVERVIEW	Frequency Range (MHz)	698-960	1710-2690
	Array	■ R1	■ Y1
	Connector	1-2	3-4
		4 PORTS	
	Polarization	XPOL	
	Azimuth Beamwidth (avg)	65°	65°
	Electrical Downtilt	0°	0°
	Dimensions	347 x 277 x 167 mm (13.7 x 10.9 x 6.6 in)	

### ORDERING OPTIONS

Select from the following ordering options

ANTENNA MODEL NUMBER	CONFIGURATION	MOUNTING HARDWARE	MOUNTING PIPE DIAMETER	SHIPPING WEIGHT
APXBL04H_43-CT0	Fixed Tilt	APM50-H0 Beam Tilt Kit Included	50-125 mm (2.0-4.9 in)	5.5 kg (12.1 lbs)

## APXBL04H\_43-CT0

### ELECTRICAL SPECIFICATIONS

■ R1

Frequency Range		MHz	698-960		
		MHz	698-806	790-894	880-960
Polarization		---	±45°		
Gain	Over all Tilts	dBi	9.4 ± 0.5	9.0 ± 0.2	9.0 ± 0.3
	Max Gain	dBi	9.9	9.2	9.3
Azimuth Beamwidth (3 dB)		degrees	77.1° ± 4.8°	73.9° ± 2.2°	72.9° ± 2.1°
Elevation Beamwidth (3 dB)		degrees	68.7° ± 3.2°	70.0° ± 1.8°	70.2° ± 2.4°
Electrical Downtilt		degrees	0°		
Impedance		Ohms	50Ω		
VSWR (Return Loss)		---	1.5:1 (-14 dB)		
Passive Intermodulation (3rd Order, 2x43 dBm Carriers)		dBc	-150		
Front-to-Back Ratio, Total Power, ± 30°		dB	16.8	20.3	20.9
Cross Polar Discrimination (XPD) at Mechanical Boresight (0°)		dB	21.5	21.5	23.2
Maximum Effective Power Per Port		Watts	100 W		
Cross Polar Isolation		dB	20		
Interband Isolation		dB	23		

### ELECTRICAL SPECIFICATIONS

■ Y1

Frequency Range		MHz	1710-2690		
		MHz	1710-1920	1920-2170	2200-2690
Polarization		---	±45°		
Gain	Over all Tilts	dBi	10.9 ± 0.4	11.6 ± 0.6	11.7 ± 0.4
	Max Gain	dBi	11.3	12.2	12.1
Azimuth Beamwidth (3 dB)		degrees	72.8° ± 8.5°	67.7° ± 3.1°	69.3° ± 5.3°
Elevation Beamwidth (3 dB)		degrees	34.9° ± 1.6°	31.3° ± 3.2°	22.1° ± 14.5°
Electrical Downtilt		degrees	0°		
Impedance		Ohms	50Ω		
VSWR (Return Loss)		---	1.5:1 (-14 dB)		
Passive Intermodulation (3rd Order, 2x43 dBm Carriers)		dBc	-150		
Front-to-Back Ratio, Total Power, ± 30°		dB	17.0	20.7	20.4
Cross Polar Discrimination (XPD) at Mechanical Boresight (0°)		dB	15.8	20.4	18.8
Maximum Effective Power Per Port		Watts	100 W		
Cross Polar Isolation		dB	20		
Interband Isolation		dB	23		

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.

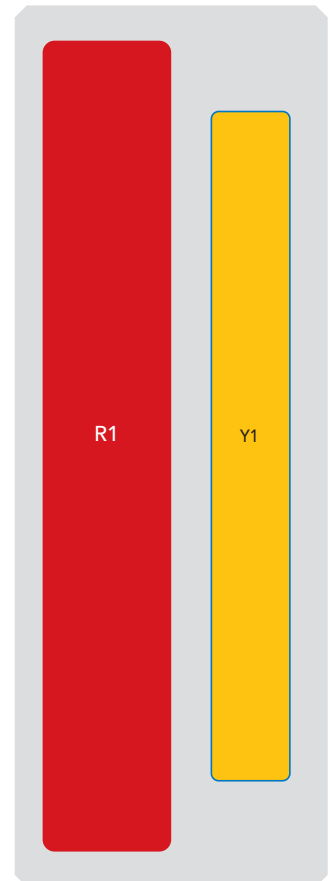
## APXBL04H\_43-CT0

### BOTTOM VIEW - LABELING



### ARRAY LAYOUT

ARRAY	FREQUENCY	CONNECTOR	CONNECTOR TYPE
<span style="color: red;">■</span> R1	698-960 MHz	1-2	(2x) 4.3-10 Female
<span style="color: yellow;">■</span> Y1	1710-2690 MHz	3-4	(2x) 4.3-10 Female



The illustration is not shown to scale.

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.

## APXBL04H\_43-CT0

### MECHANICAL SPECIFICATIONS

Length	mm (in)	347 (13.7)
Width	mm (in)	277 (10.9)
Depth	mm (in)	167 (6.6)
Net Weight - Antenna Only	kg (lbs)	3 (6.6)
Net Weight - Mounting Hardware Only	kg (lbs)	1.1 (2.4)
Wind Load Rated at 150 km/h (93 mph)	Front	N (lbf) 90 (20)
	Side	N (lbf) 100 (22)
	Rear	N (lbf) 65 (15)
Survival Wind Speed / Rated Wind Speed	km/h (mph)	200/150 (125/93)
Connector Type	--	(4x) 4.3-10 Female at Bottom
Radome Color	---	Light Grey, RAL7035
Radome Material	---	UPVC
Lightning Protection	---	DC Ground
<b>Shipping</b>	Packing Size (Length x Width x Depth)	mm (in) 476 x 352 x 305 (18.7 x 13.8 x 12)
	Shipping Weight	kg (lbs) 5.5 (12.1)

### 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

## APXBL04H\_43-CT0

### 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-H0	1.1 kg (2.4 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](#)