

APXV3RR13-C-NA20

Features

This side-by-side variable tilt combination antenna provides exceptional suppression of all upper sidelobes at all downtilt angles. It is ideal for 3G and 4G networks where high gain is required.

- Ideal for high capacity sites and MIMO applications
- Variable electrical downtilt - provides enhanced precision in controlling intercell interference. The tilt is infield adjustable 0-10°
- High suppression of all upper sidelobes
- Optional remote tilt - can be retrofitted
- Broadband design
- Dual polarization
- Low profile for low visual impact
- Quick and easy to adjust
- High front-to-back ratio



| | | | |
|-------------------------|--|----------------|-----|
| PRODUCT OVERVIEW | Frequency Range (MHz) | (2x) 1710-2200 | |
| | Connector | 1-2 | 3-4 |
| | | 4 PORTS | |
| | Polarization | XPOL | |
| | Azimuth Beamwidth (avg) | 33° | |
| | Gain | 20.2 dBi | |
| | Electrical Downtilt | 0-10° | |
| Dimensions | 1375 x 576 x 118 mm (54.1 x 22.7 x 4.6 in) | | |

ORDERING OPTIONS

Select from the following ordering options

| ANTENNA MODEL NUMBER | MOUNTING HARDWARE | MOUNTING PIPE DIAMETER | SHIPPING WEIGHT |
|----------------------|--------------------------------|------------------------|------------------|
| APXV3RR13-C-NA20 | APM40-2 Beam Tilt Kit Included | 60-120 mm (2.4-4.7 in) | 40.8 kg (90 lbs) |

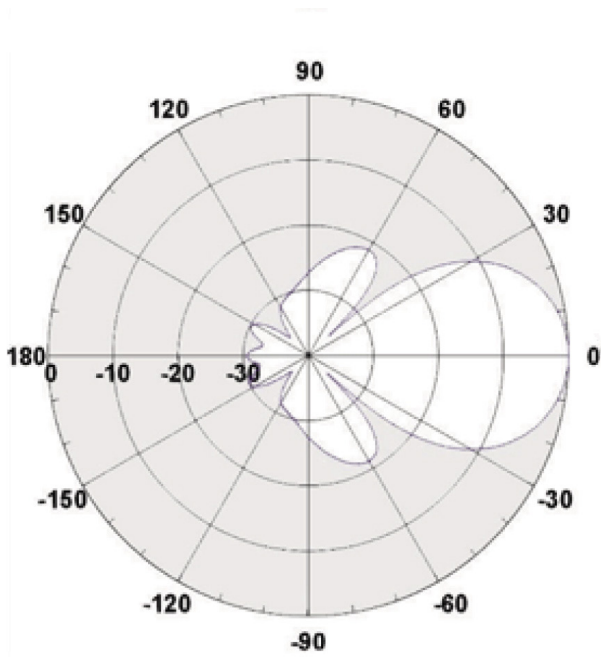


Quoted performance parameters are provided to offer typical, peak or range values only and may vary as a result of normal testing, manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage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

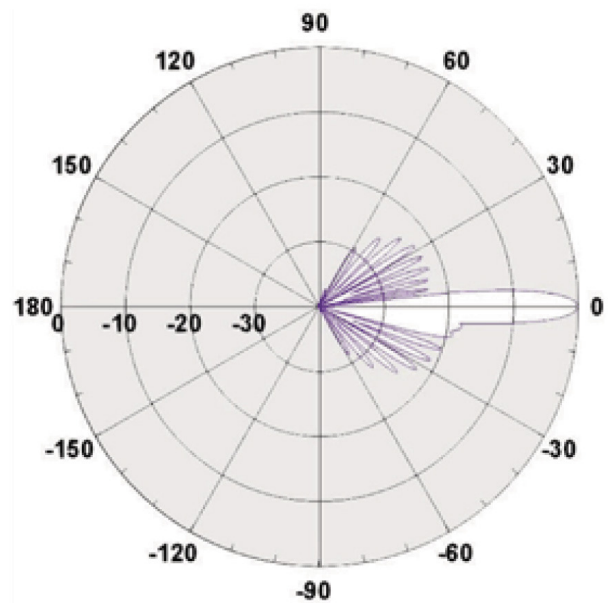
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ELECTRICAL SPECIFICATIONS

| | | | | |
|--|---------|-------------------|-----------|-----------|
| Frequency Range | MHz | 1710-2200 | | |
| | MHz | 1710-1850 | 1850-1990 | 1900-2200 |
| Polarization | --- | ±45° | | |
| Gain | dBi | 20.4 | 20.2 | 21.1 |
| Azimuth Beamwidth (3 dB) | degrees | 34° | 33° | 33° |
| Elevation Beamwidth (3 dB) | degrees | 7.4° | 7.0° | 6.5° |
| Electrical Downtilt | degrees | Variable 0-10° | | |
| Impedance | Ohms | 50Ω | | |
| Passive Intermodulation 3rd Order for 2x20 W Carriers | dBc | ≥ 153 | | |
| Front-to-Back Ratio | dB | > 25 at 180° ±15° | | |
| First Upper Side Lobe | dB | > 17 at T0° + T8° | | |
| Cross Polar Discrimination (XPD) 0° | dB | > 17 | | |
| Cross Polar Discrimination (XPD) ±60° | dB | > 10 | | |
| HBW Squint Across Same Band Ports | degrees | ±1° | | |
| Maximum Effective Power Per Port | Watts | 300 W | | |
| Isolation Between Ports | dB | > 30 | | |



AZIMUTH PATTERN



ELEVATION PATTERN

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OPTIMIZER®

33°

1375 mm

VARIABLE TILT

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MECHANICAL SPECIFICATIONS

| | | |
|--|------------|--|
| Length | mm (in) | 1375 (54.1) |
| Width | mm (in) | 576 (22.7) |
| Depth | mm (in) | 118 (4.6) |
| Net Weight - Antenna Only | kg (lbs) | 31.8 (70) |
| Wind Load Rated at 150 km/h (93 mph) | Front | N (lbf) 1125 (253) |
| | Side | N (lbf) 126 (28) |
| Survival Wind Speed / Rated Wind Speed | km/h (mph) | 240 (150) at 0° Mechanical Tilt / 150 (93.2) |
| Connector Type | -- | (4x) 7-16 Long Neck Female at Bottom |
| Radome Color | --- | Light Grey RAL7035 |
| Radome Material | --- | ASA UV4B |
| Lightning Protection | --- | Direct Ground |

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 |
|--|--------------|
| Beam Tilt Mounting Bracket Kit for Pole Diameter 60-120 mm (2.4-4.7 in) <i>Shipped with antenna</i> | APM40-2 |

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

[APM40 Mounting Kit Series Installation Instructions](#)

NOTES

For additional mounting information, please check **External Document Links**.

For Radiating Patterns: [Request pattern files](#)