



This X-Polarized side-by-side variable tilt antenna provides exceptional suppression of all upper sidelobes at all downtilt angles. It also features a wide downtilt range.

FEATURES / BENEFITS

- Variable electrical downtilt provides enhanced precision in controlling intercell interference. The tilt is infield adjustable 0-9 deg.
- High Suppression of all Upper Sidelobes (Typically <-18dB)
- Low profile for low visual impact
- Dual polarization
- Broadband design
- AISG 2.0 Compatible antenna control unit



Technical features

ELECTRICAL SPECIFICATIONS

| Frequency Range | MHz | 1710-1900 | 1900-2170 |
|--|-----------|--------------------------------|-----------|
| Gain | dBi (dBd) | 16.5 (14.4) | |
| Horizontal Beamwidth | deg | 88 | 94 |
| Vertical Beamwidth | deg | 7.0 | 6.4 |
| Electrical Downtilt Range | deg | 0-9 | |
| 1st Upper Sidelobe Suppression | dB | >17 all others (typically >20) | |
| Upper Sidelobe Suppression | dB | >17 all others (typically >20) | |
| Front-To-Back Ratio | dB | >26 | |
| Polarization | | Dual pol +/-45° | |
| VSWR | | < 1.5:1 | |
| Isolation between Ports | dB | >30 | |
| 3rd Order IMP @ 2 x 43 dBm | dBc | >153, NA | |
| 7th Order IMP @ 2x46 dBm | dBc | NA, >170 | |
| Cross Polar Discrimination (XPD) 0° | dB | >15 at 0 deg | |
| Cross Polar Discrimination (XPD) ± 60° | dB | >10 at +/-60 deg | |
| HBW Squint accross same band ports | ° | +/-5 | |
| Impedance | Ohms | 50 | |
| Maximum Power Input | W | 300 | |
| Beamwidth Approximate | deg | 90 | |
| Antenna Type | | Dual Polarized-Side by Side | |
| Electrical Down Tilt Option | | Variable | |



APXV9RR13-C-NA20

Optimizer® Dual Polarized Antenna, 1710-2170MHz, 90deg, 16.5dBi, 1.3m, VET, 0-9deg, RET

MECHANICAL SPECIFICATIONS

| | | |
|-------------------------------|------------|----------------------------------|
| Lightning Protection | | Direct Ground |
| Connector Type/Location | | (4) 7-16 Long Neck Female/Bottom |
| Dimensions - HxWxD | mm (in) | 1349 x 356 x 80 (53 x 14 x 3.15) |
| Weight w/o Mtg Hardware | kg (lb) | 18.1 (40) |
| Survival/Rated Wind Speed | km/h (mph) | 240 (150) / 160 (100) |
| Wind Load @ Rated Wind, Front | N (lbf) | 677 (152) |
| Wind Load @ Rated Wind, Side | N (lbf) | 70 (16) |
| Mount Type | | Downtilt |
| Height (Approximate) | ft. | 4.25 |

TESTING AND ENVIRONMENTAL

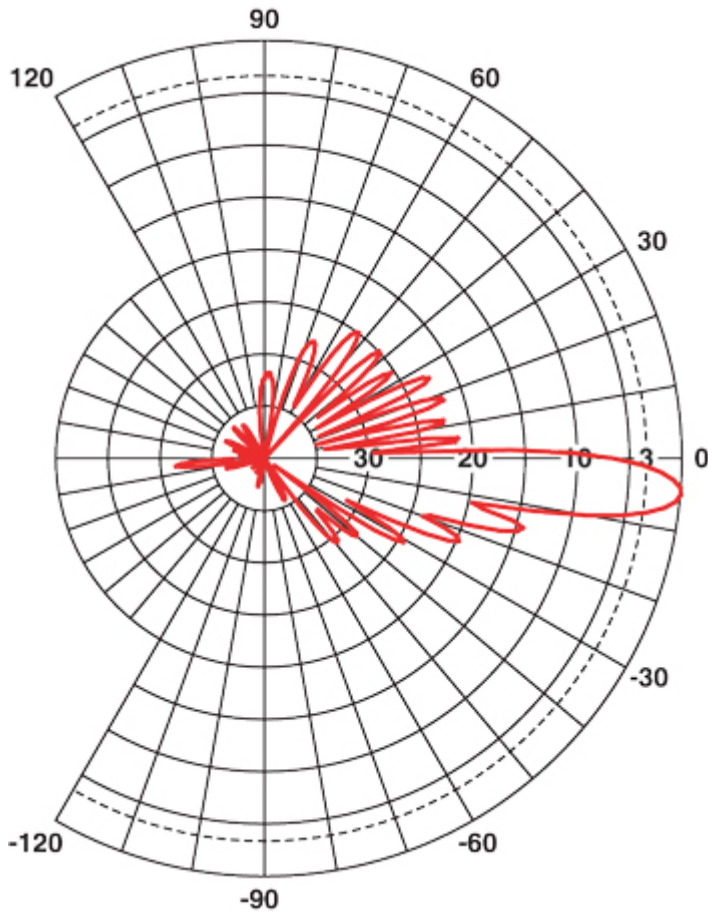
| | | |
|-----------------------|---------|-------------------------|
| Operation temperature | °C (°F) | -40 to 60 (-40 to 140) |
|-----------------------|---------|-------------------------|

MATERIAL

| | | |
|----------------------------|--|--------------------|
| Mounting Hardware Material | | APM40-1 + 30019995 |
|----------------------------|--|--------------------|

ORDERING INFORMATION

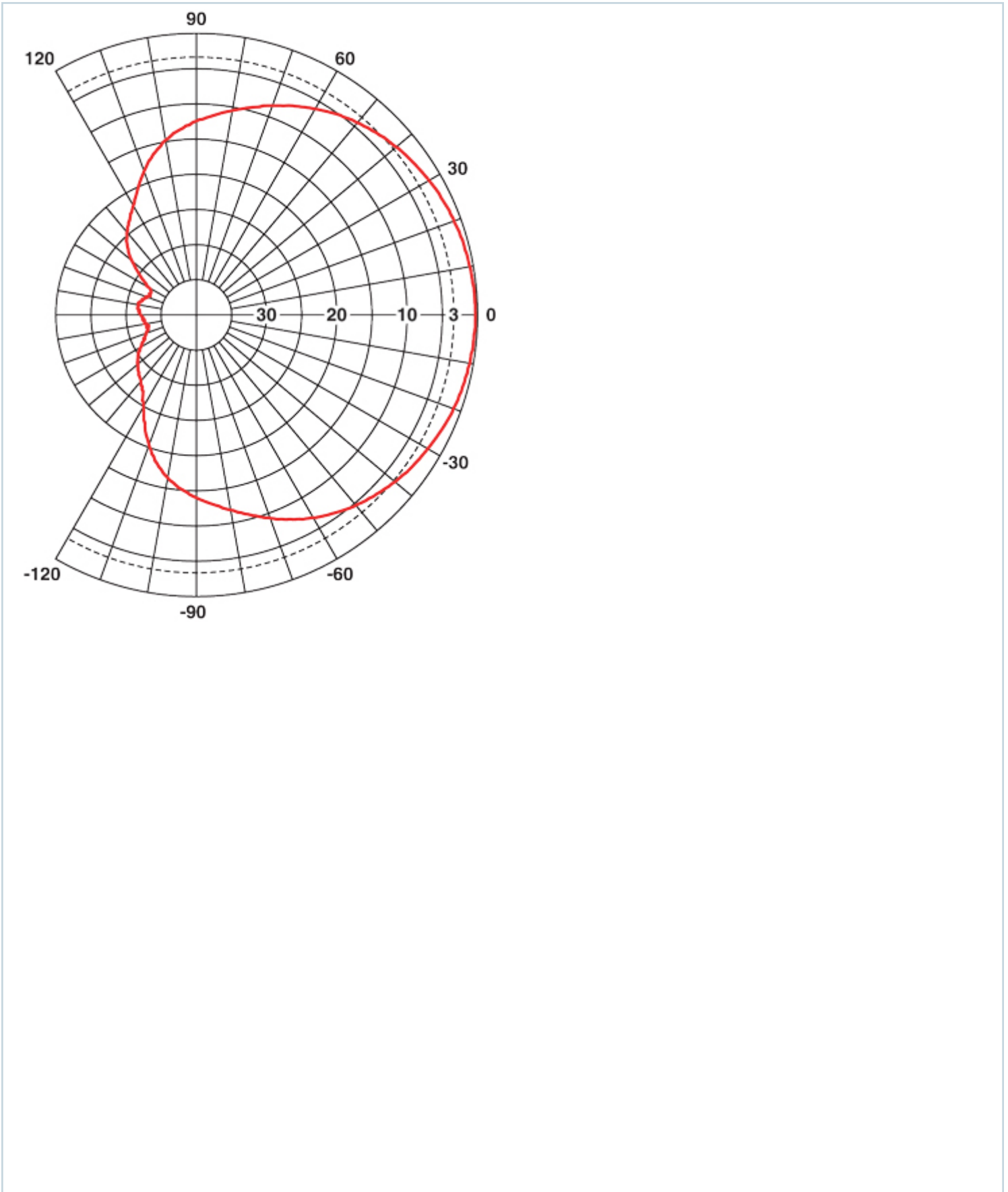
| | | |
|------------------------|---------|-------------------------|
| Mounting Hardware | | APM40-1 + 30019995 |
| Mounting Pipe Diameter | mm (in) | 60 - 120 (2.36 - 4.72) |





APXV9RR13-C-NA20

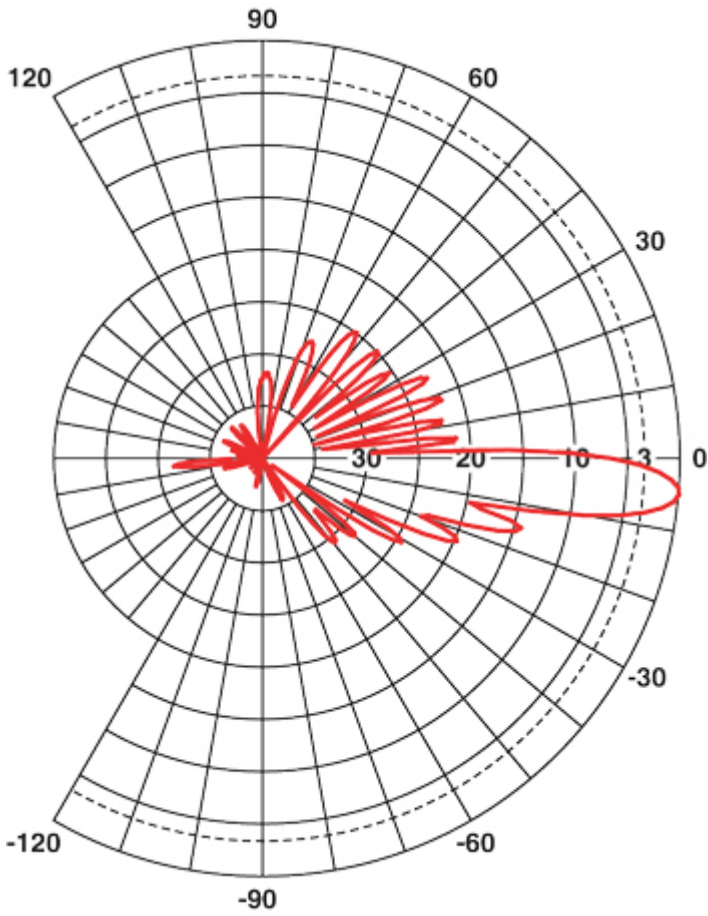
Optimizer® Dual Polarized Antenna, 1710-2170MHz, 90deg, 16.5dBi, 1.3m, VET, 0-9deg, RET





APXV9RR13-C-NA20

Optimizer® Dual Polarized Antenna, 1710-2170MHz, 90deg, 16.5dBi, 1.3m, VET, 0-9deg, RET



External Document Links

[APM40 Series Datasheet](#)

[APM40 Series Installation Instructions](#)

Notes

Available Configurations

- APXV9RR13-C-NA20 – Pre-commissioned ACUs included and 0.5m AISG Jumper.

For additional mounting information please click ""External Document Links"".