

CATALOGUE

4TECT

RF SPIN
Broadband Antenna Experts

2021

4TECT

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Quad Ridged Horn Antenna – Model QRH67E

Electrical Specifications

| | |
|--------------------|-------------------|
| Frequency Range | 6 GHz – 67 GHz |
| VSWR (max.) | < 2.4 |
| Impedance | 50 Ω |
| Connector | 2 × 1.85mm female |
| Power (CW / Pulse) | 5 W / 10 W |

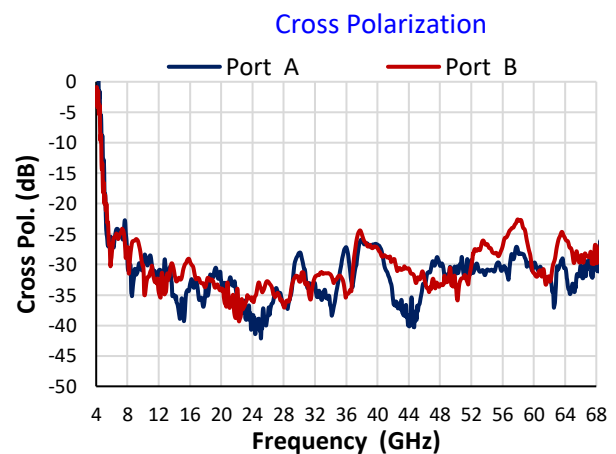
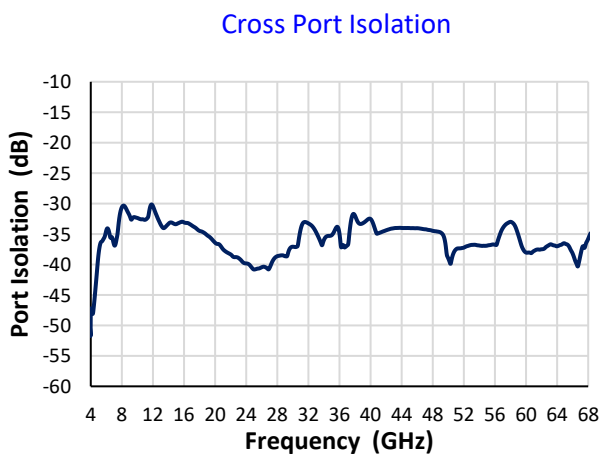
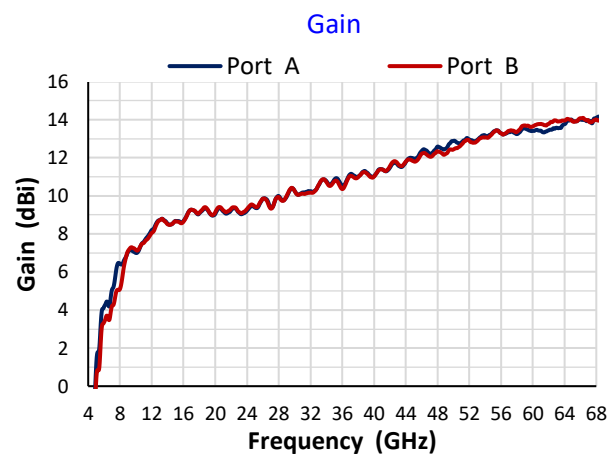
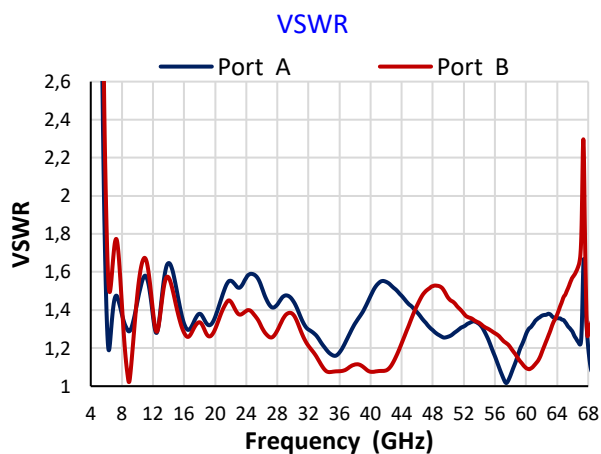
Physical Specifications

| | |
|--------|--------------------|
| Width | 35.1 mm (1.382 in) |
| Depth | 35.1 mm (1.382 in) |
| Height | 77.5 mm (3.051 in) |
| Weight | 70 g (0.154 lb) |

- Linear or circular polarization (with hybrid)

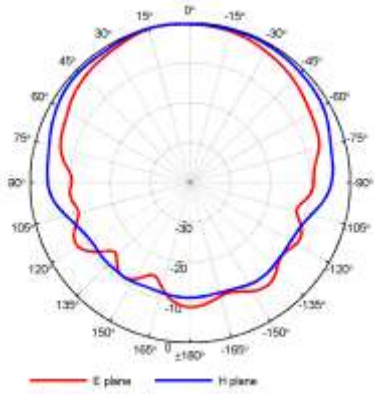


Typical Parameters

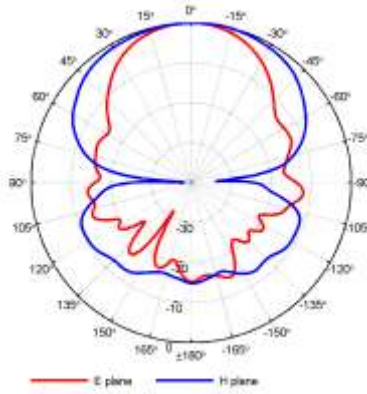


PORT A - Radiation Patterns

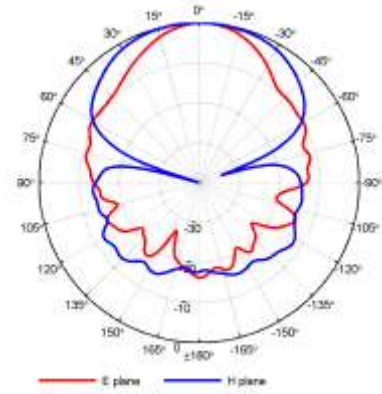
6 GHz



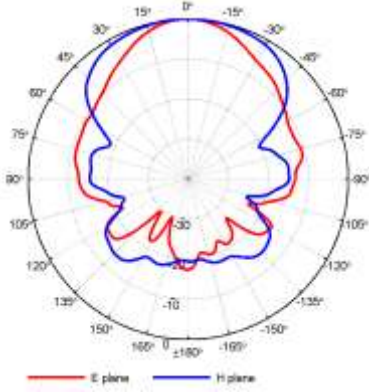
10 GHz



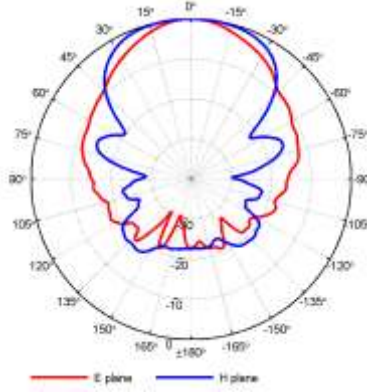
16 GHz



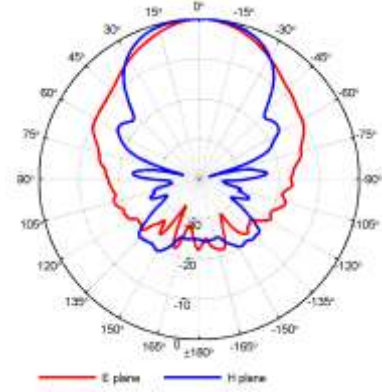
22 GHz



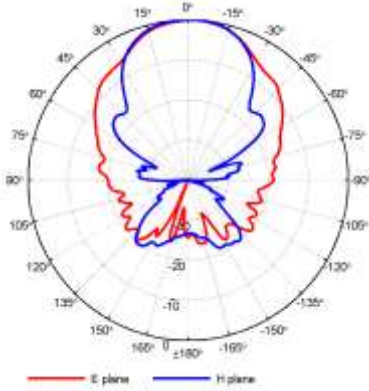
28 GHz



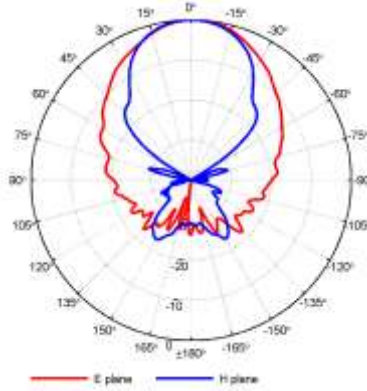
34 GHz



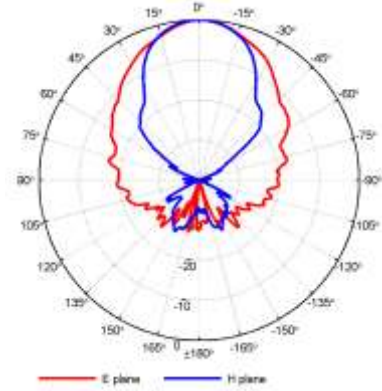
40 GHz



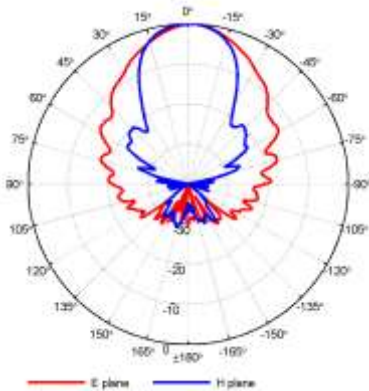
46 GHz



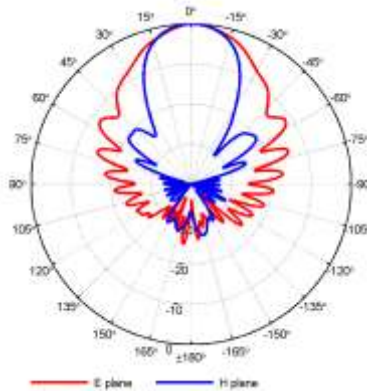
52 GHz



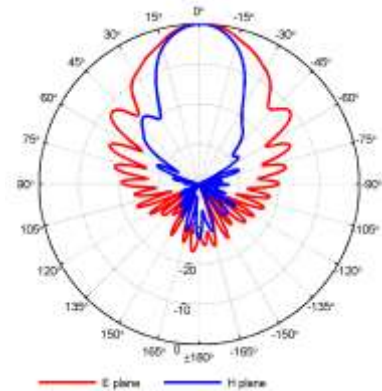
58 GHz



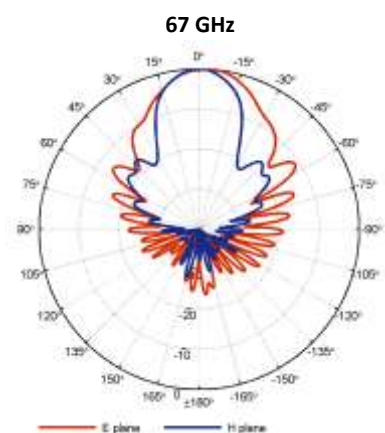
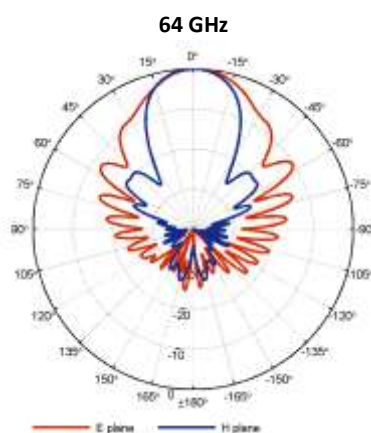
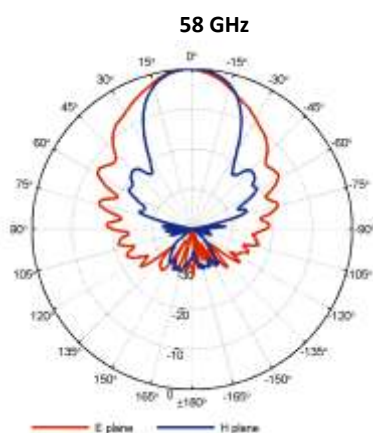
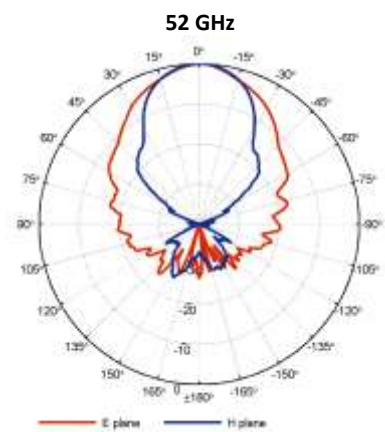
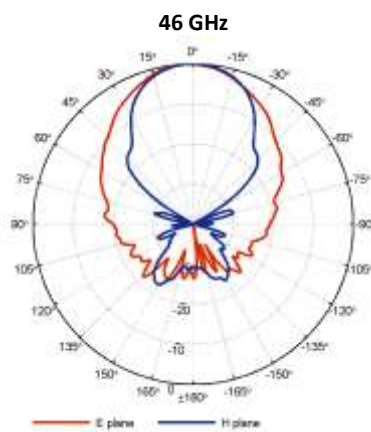
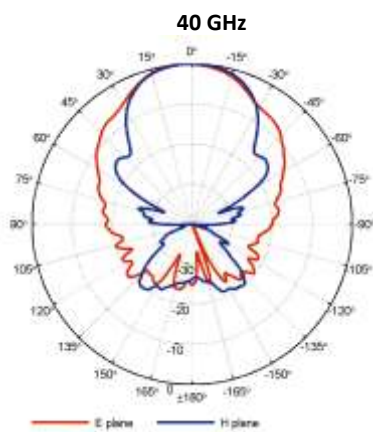
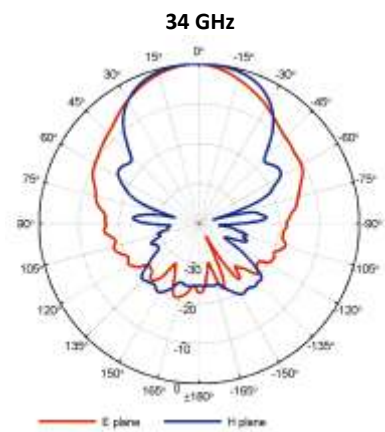
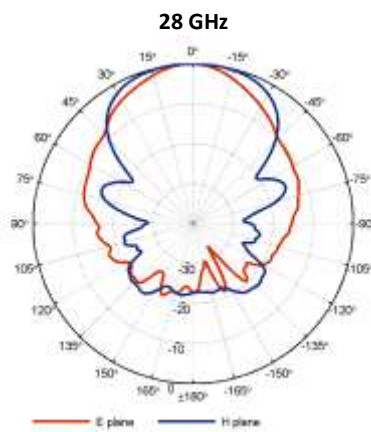
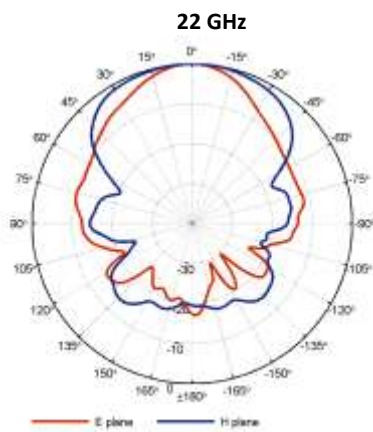
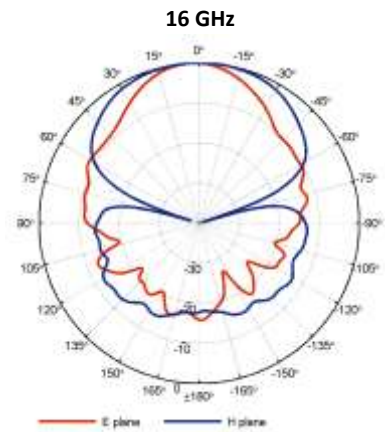
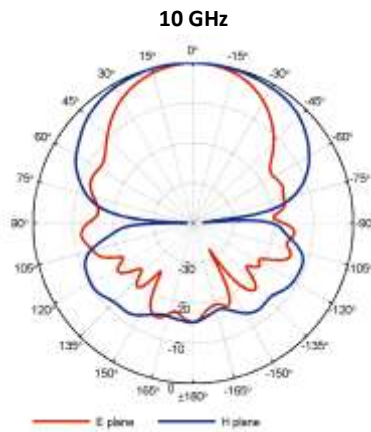
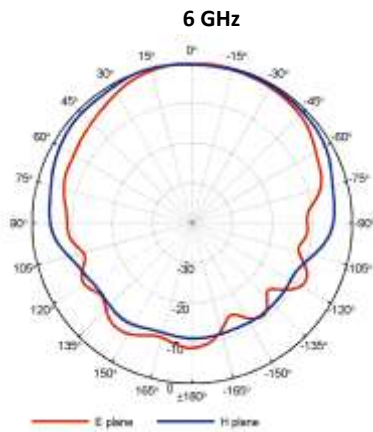
64 GHz



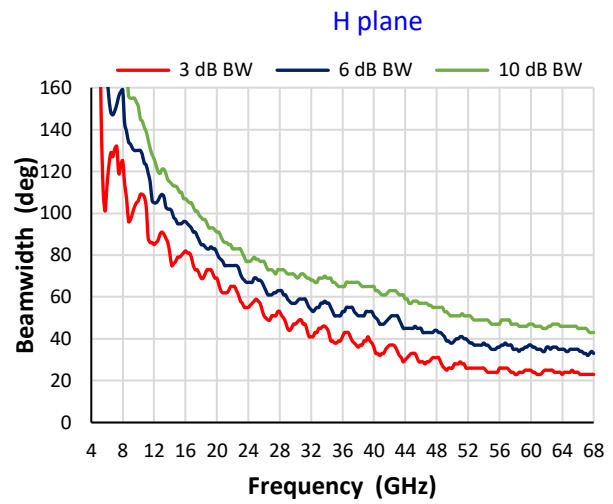
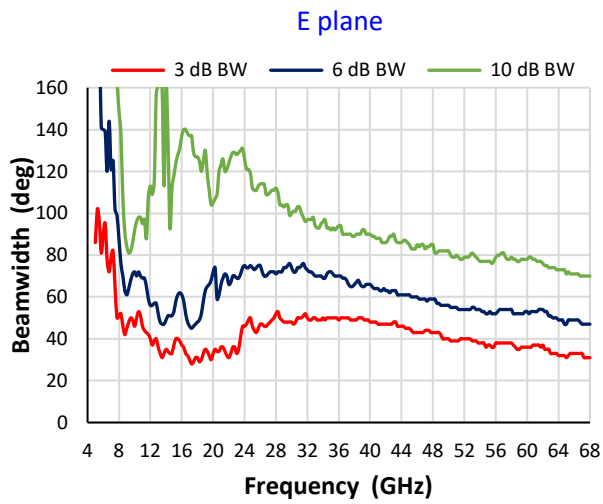
67 GHz



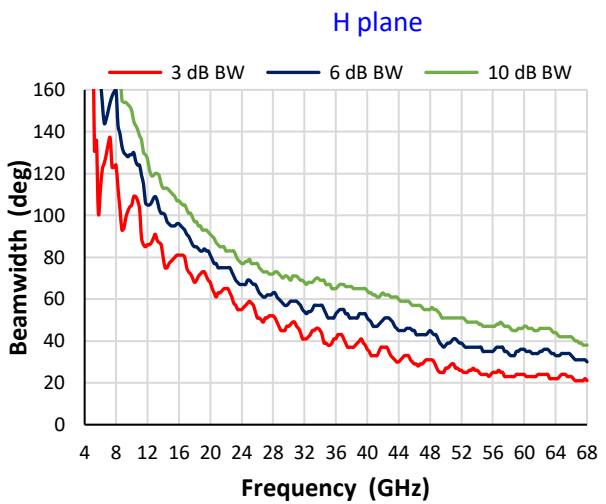
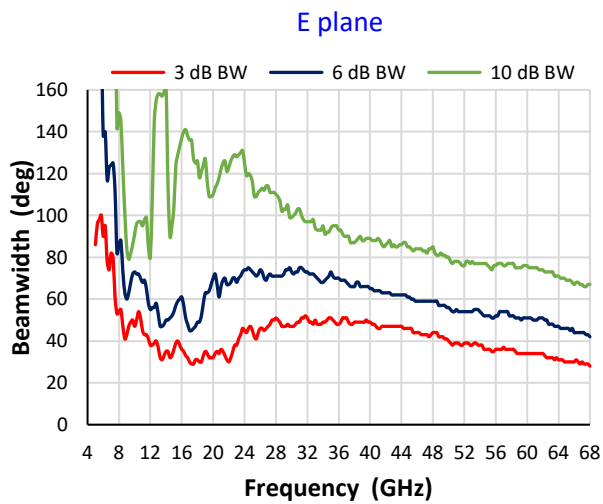
PORT B - Radiation Patterns



Beamwidth – Port A



Beamwidth – Port B



Quad Ridged Horn Antenna – Model QRH50E

Electrical Specifications

| | |
|--------------------|-------------------|
| Frequency Range | 5 GHz – 50 GHz |
| VSWR (max.) | < 2.5 |
| Impedance | 50 Ω |
| Connector | 2 x 2.40mm female |
| Power (CW / Pulse) | 5 W / 10 W |

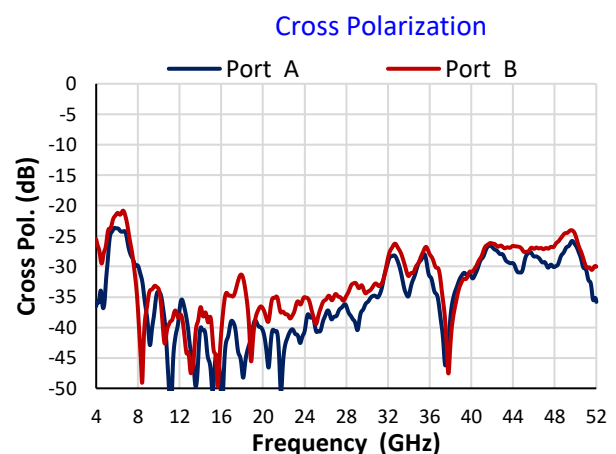
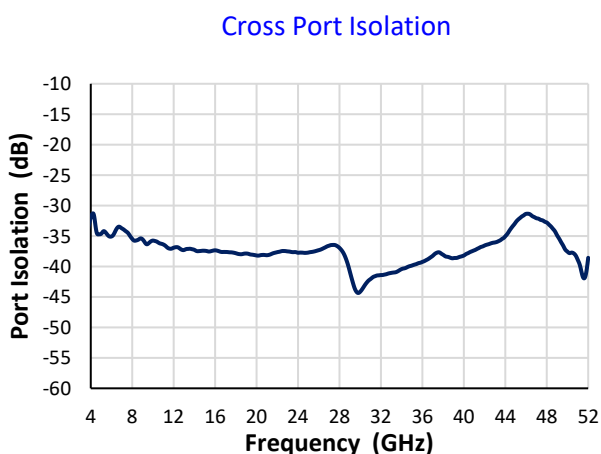
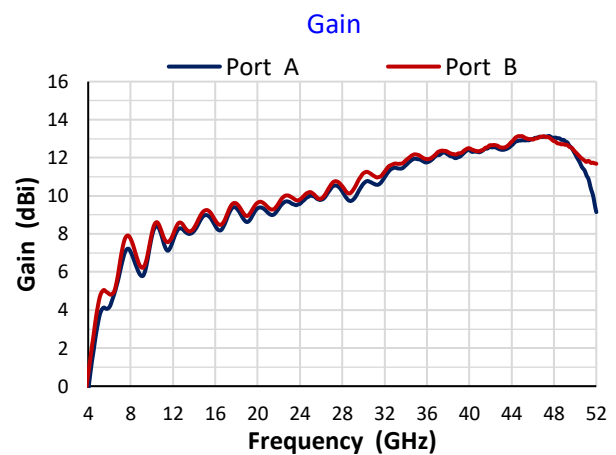
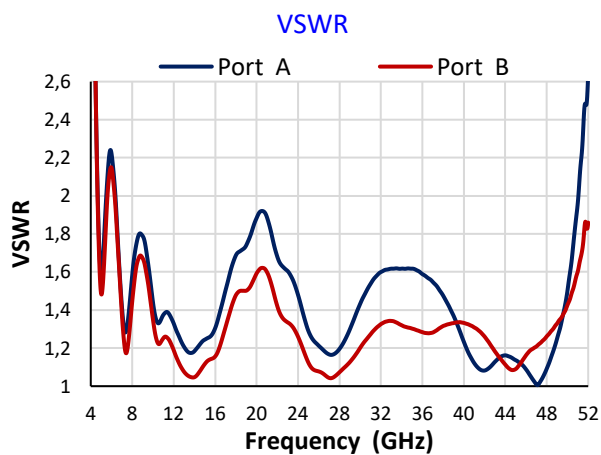
Physical Specifications

| | |
|--------|------------------|
| Width | 45 mm (1.77 in) |
| Depth | 45 mm (1.77 in) |
| Height | 85 mm (3.346 in) |
| Weight | 78 g (0.172 lb) |

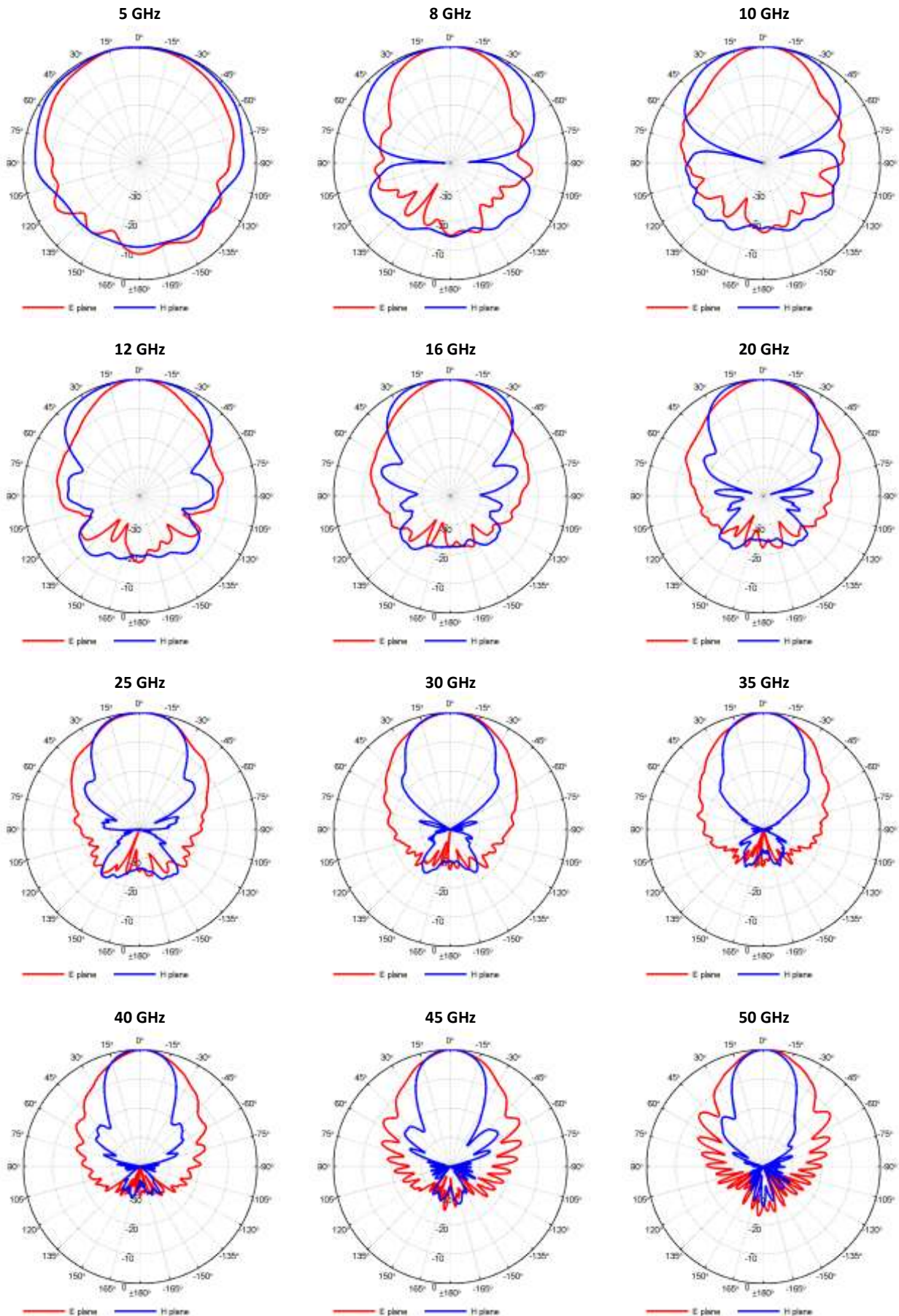
- Linear or circular polarization (with hybrid)



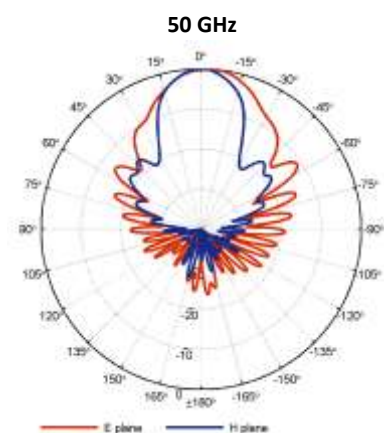
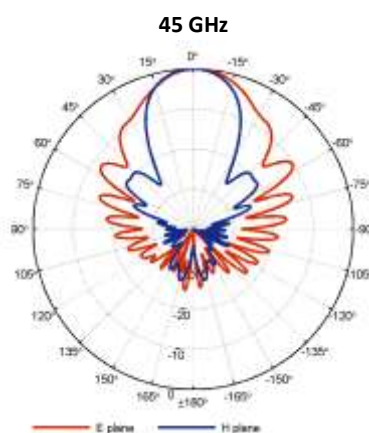
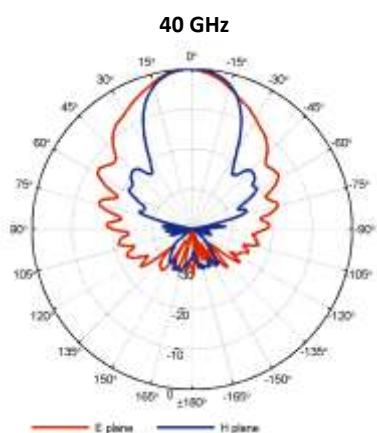
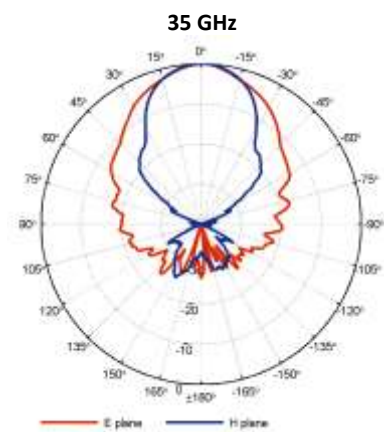
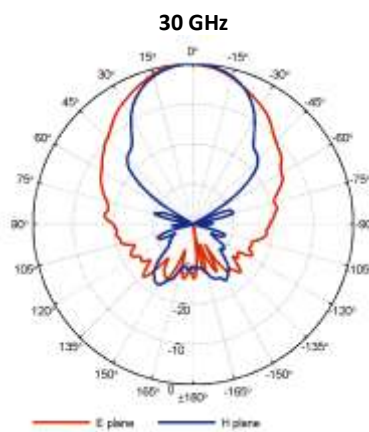
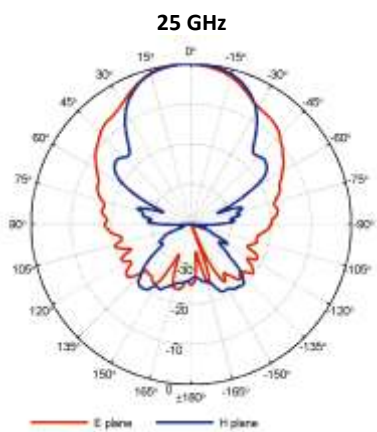
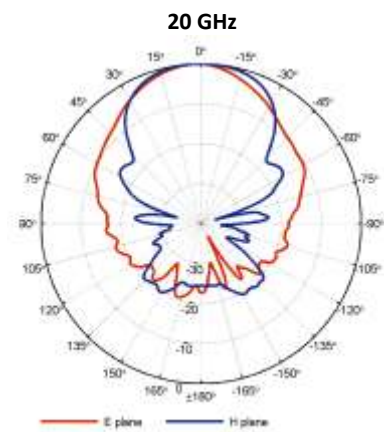
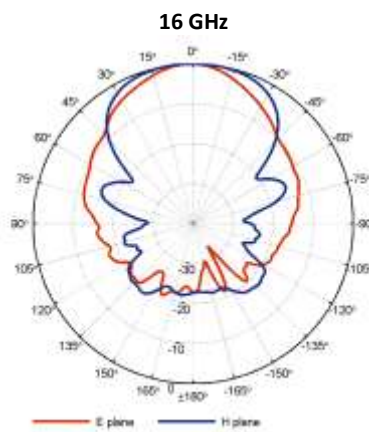
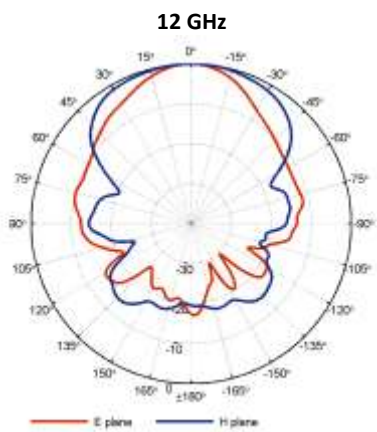
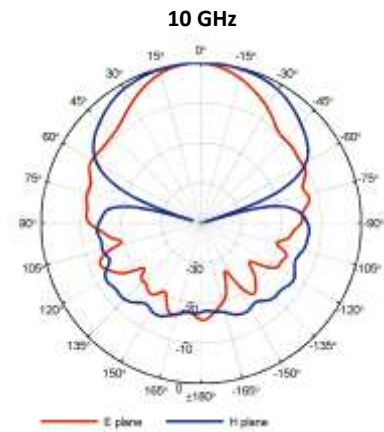
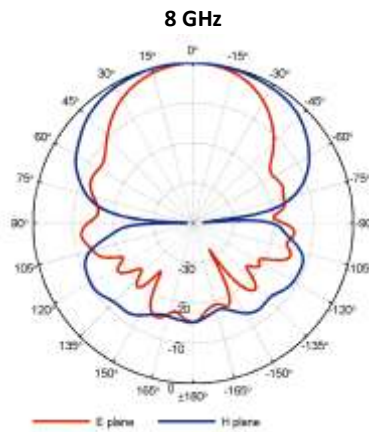
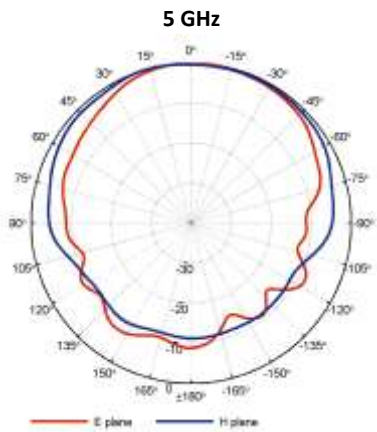
Typical Parameters



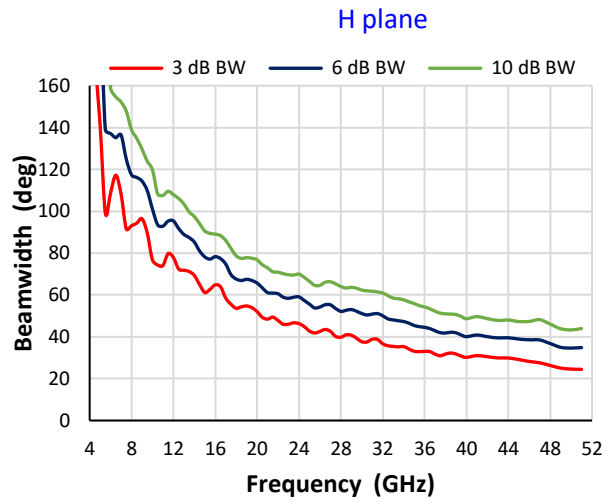
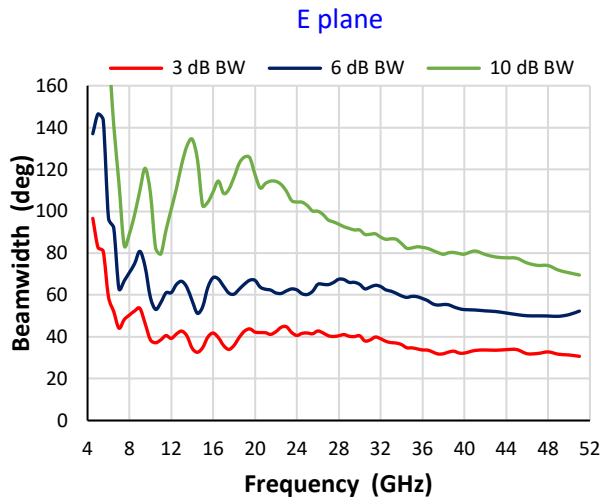
PORT A - Radiation Patterns



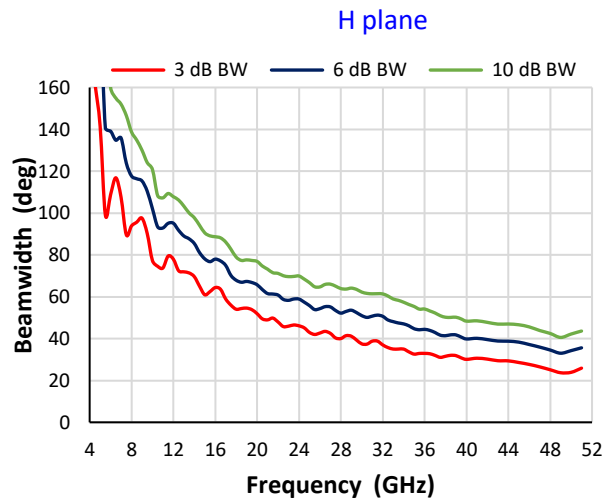
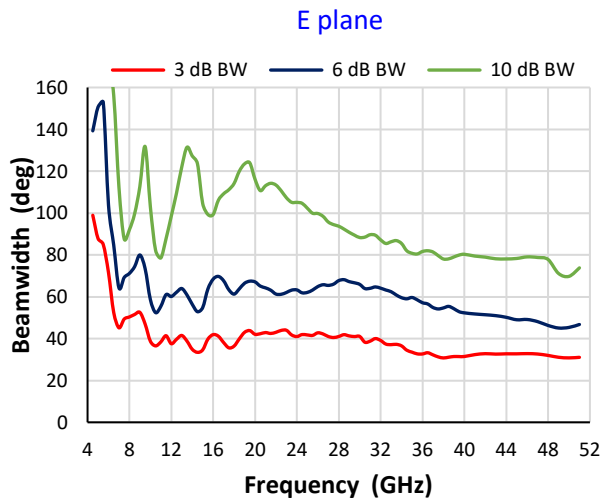
PORT B - Radiation Patterns



Beamwidth – Port A



Beamwidth – Port B



Quad Ridged Horn Antenna – Model QRH40

Electrical Specifications

| | |
|--------------------|---------------------|
| Frequency Range | 4 GHz – 40 GHz |
| VSWR (max.) | < 2.4 |
| Impedance | 50 Ω |
| Connector | 2 \times K female |
| Power (CW / Pulse) | 10 W / 20 W |

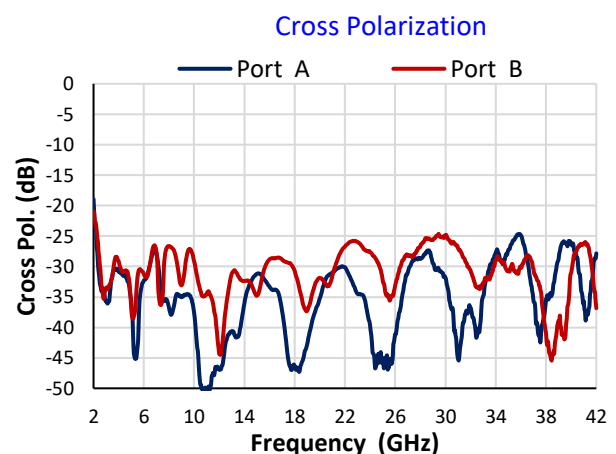
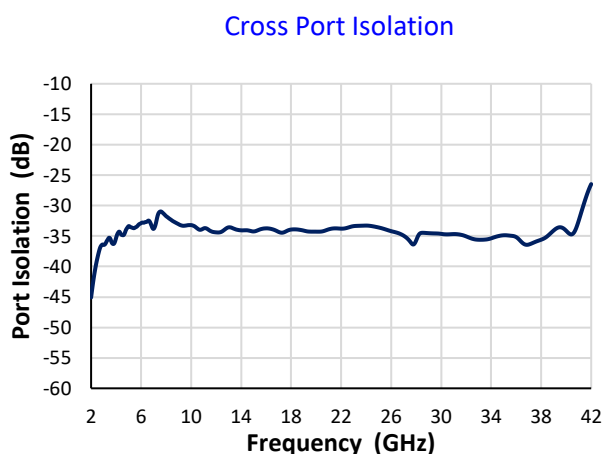
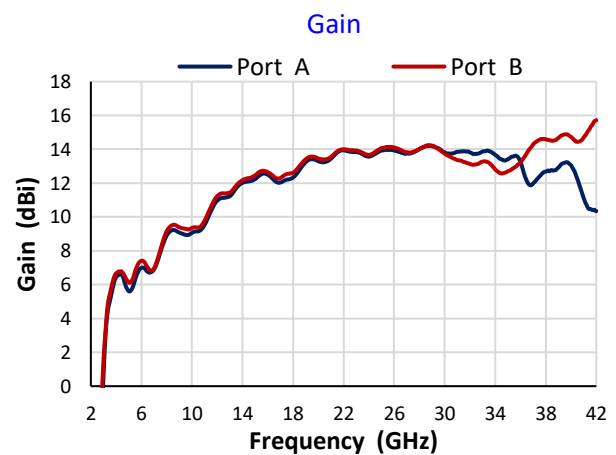
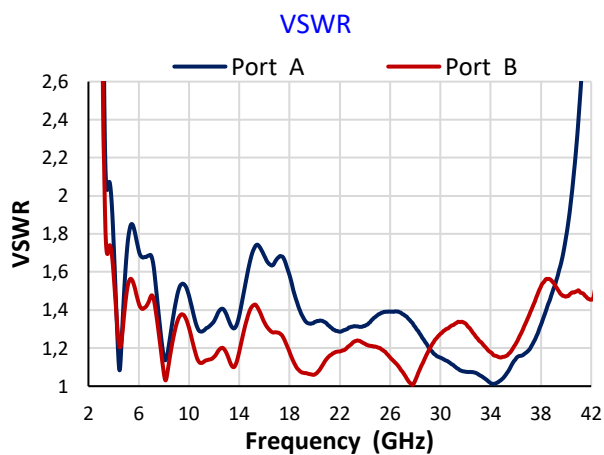
Physical Specifications

| | |
|--------|-----------------|
| Width | 53 mm (2.09 in) |
| Depth | 53 mm (2.09 in) |
| Height | 68 mm (2.68 in) |
| Weight | 68 g (0.15 lb) |

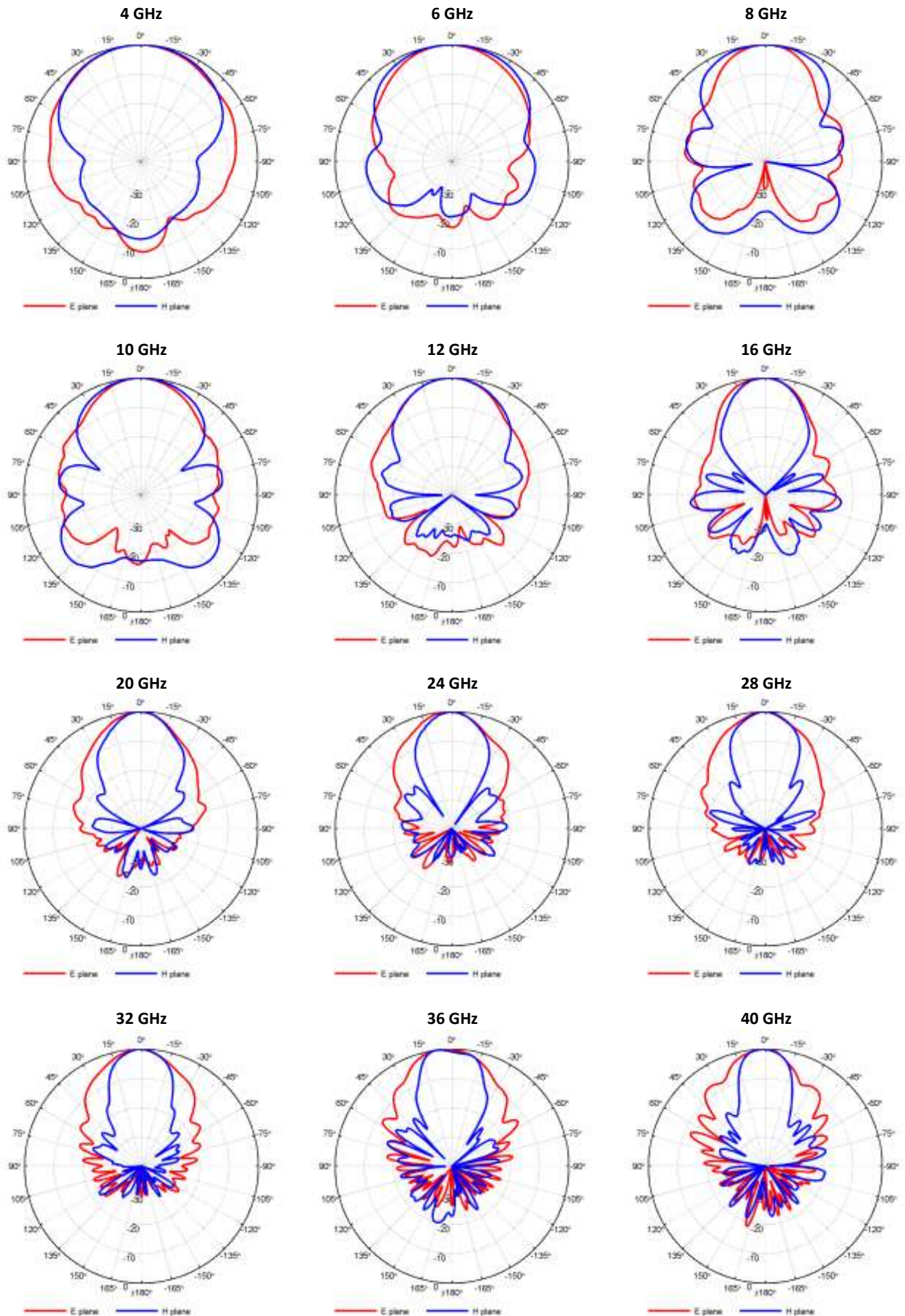
- Linear or circular polarization (with hybrid)



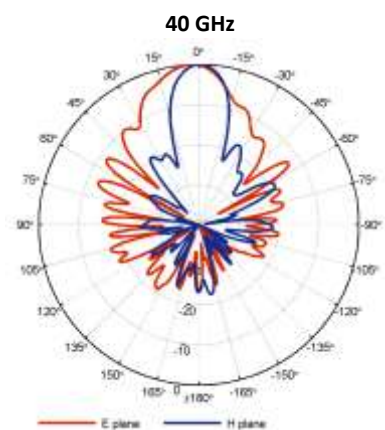
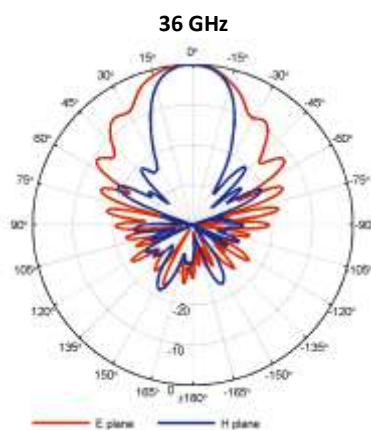
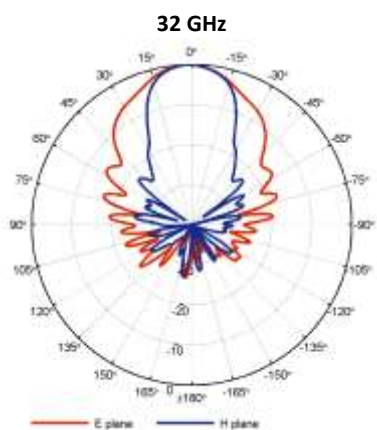
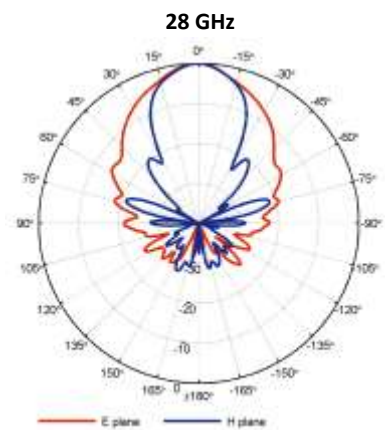
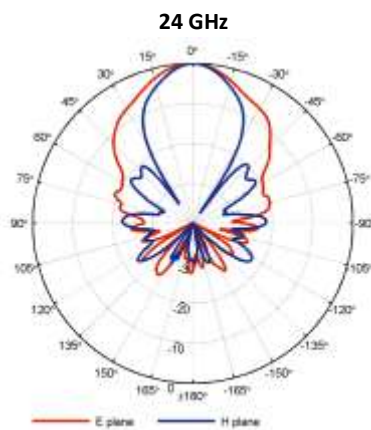
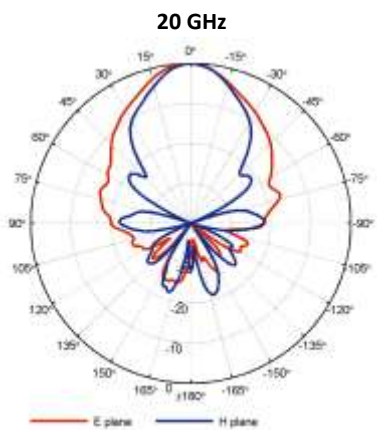
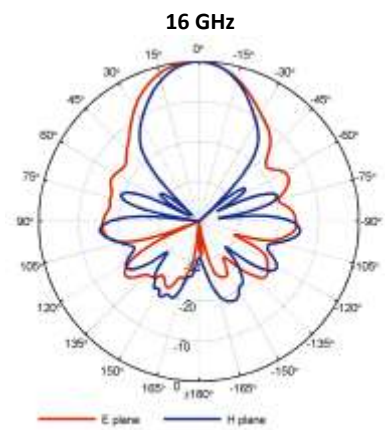
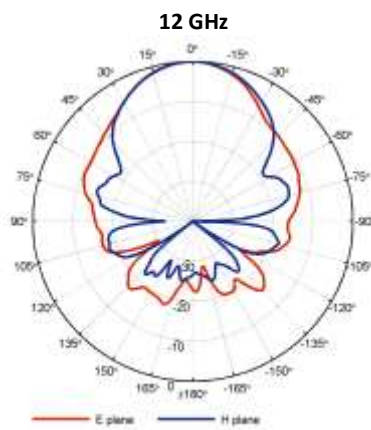
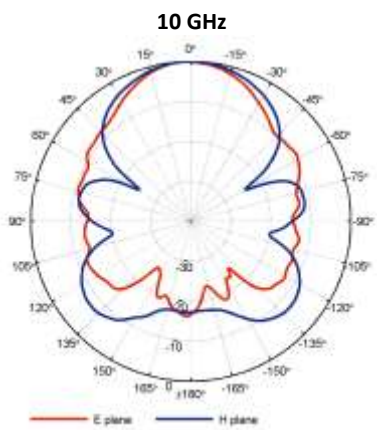
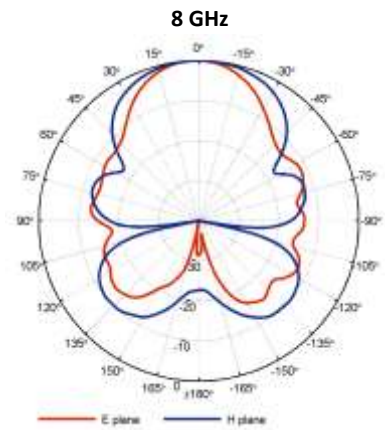
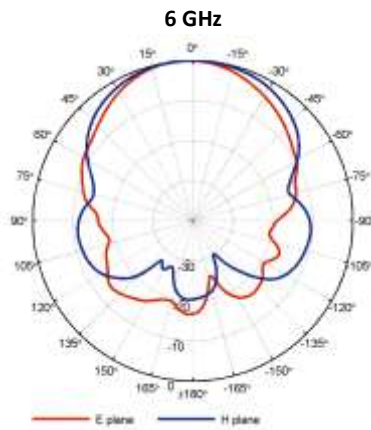
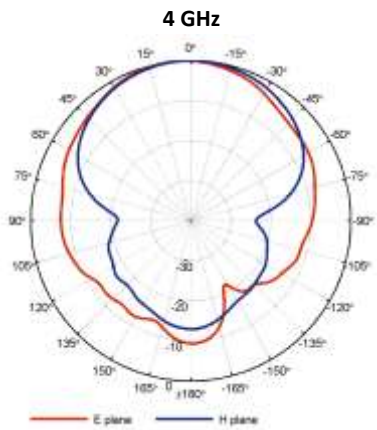
Typical Parameters



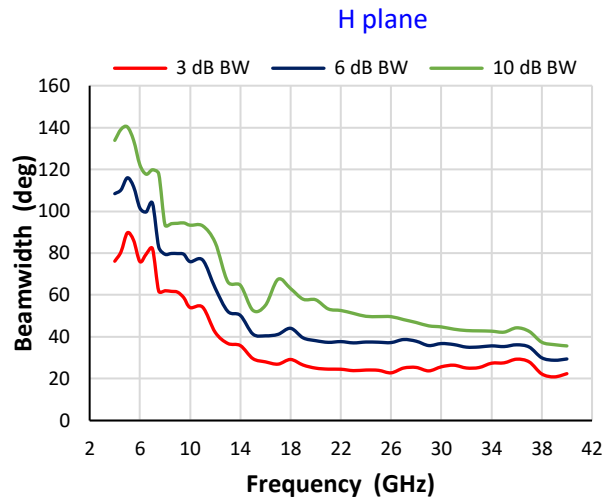
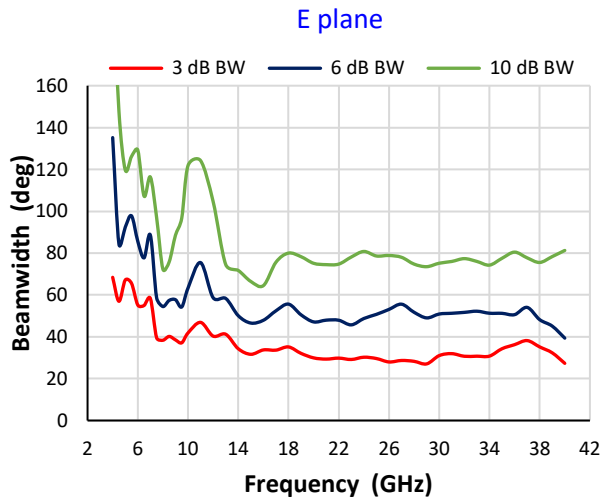
PORT A - Radiation Patterns



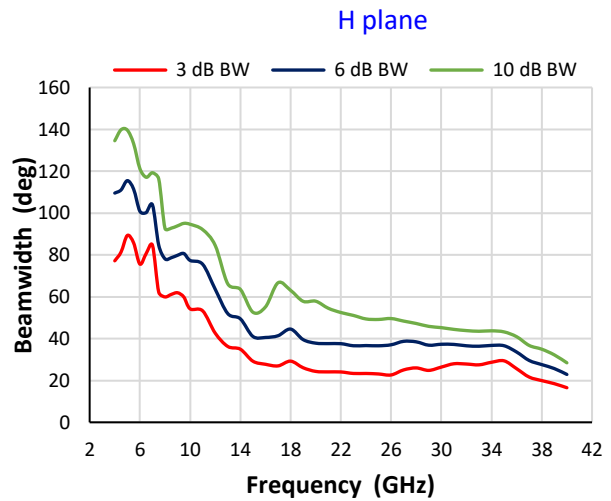
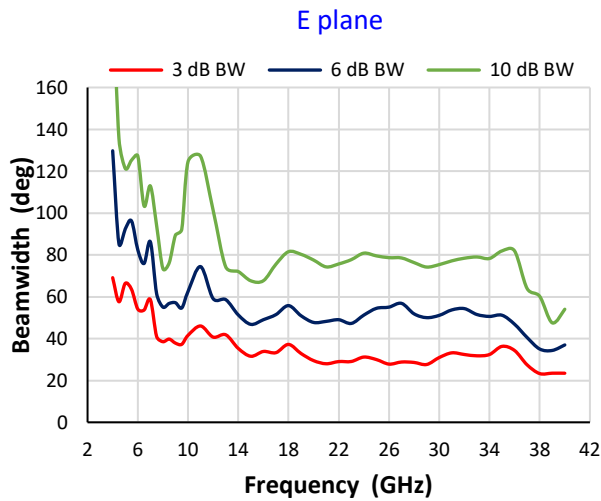
PORT B - Radiation Patterns



Beamwidth – Port A



Beamwidth – Port B



Quad Ridged Horn Antenna – Model QRH20E

Electrical Specifications

| | |
|--------------------|------------------|
| Frequency Range | 1.7 GHz – 20 GHz |
| VSWR (max.) | < 2.4 |
| Impedance | 50 Ω |
| Connector | 2 × SMA female |
| Power (CW / Pulse) | 20 W / 40 W |

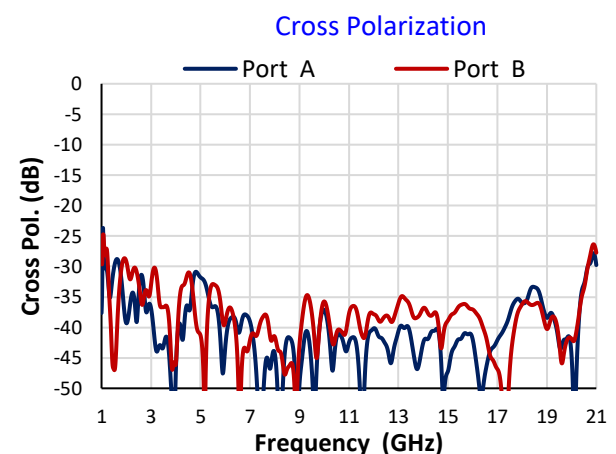
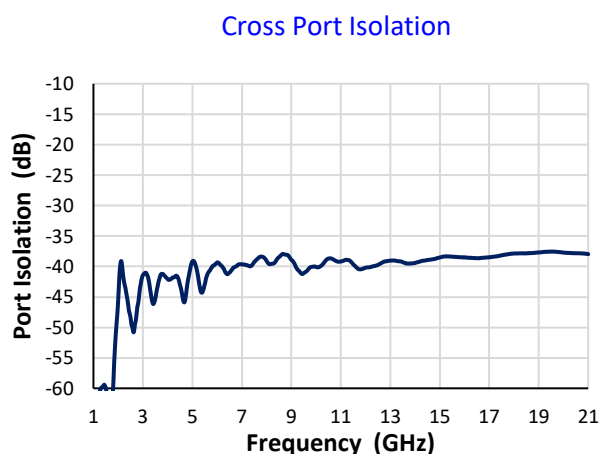
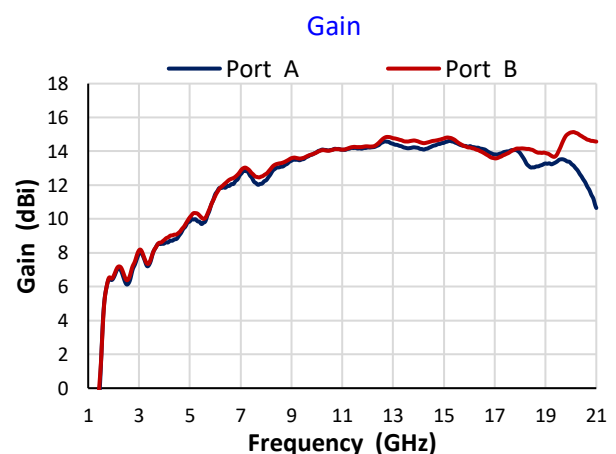
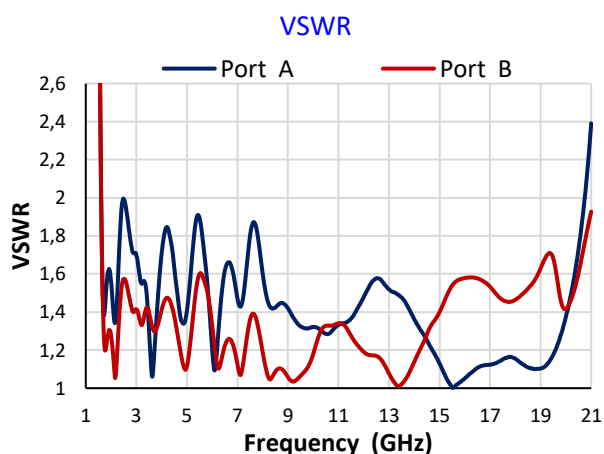
Physical Specifications

| | |
|--------|------------------|
| Width | 101 mm (3.98 in) |
| Depth | 101 mm (3.98 in) |
| Height | 132 mm (5.20 in) |
| Weight | 258 g (0.56 lb) |

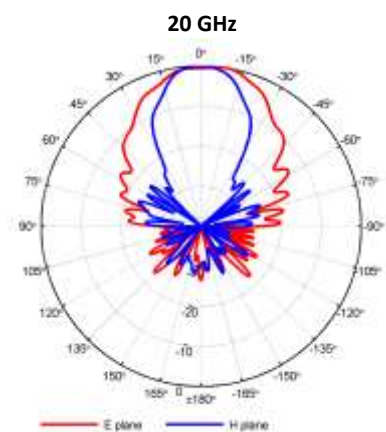
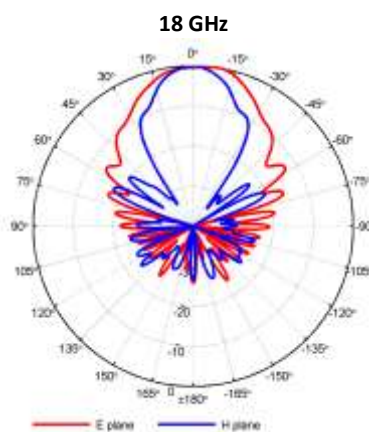
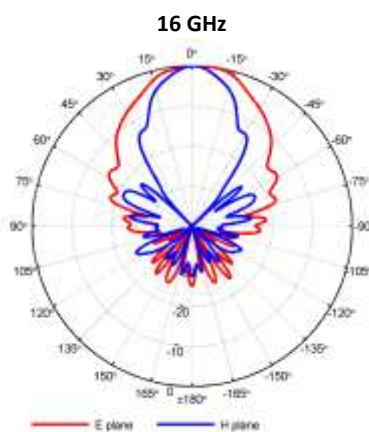
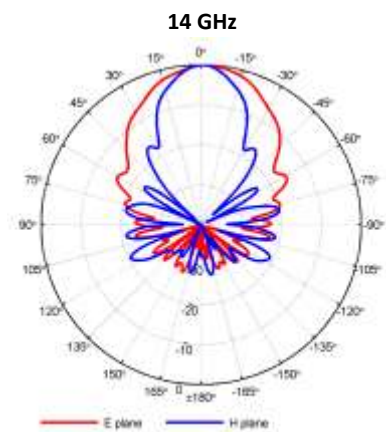
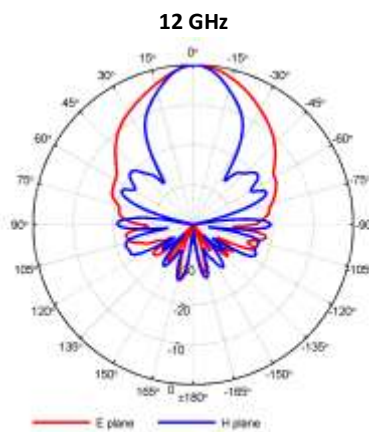
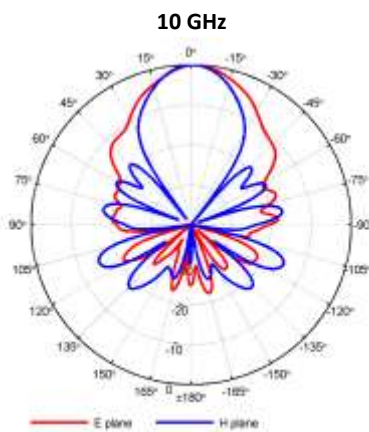
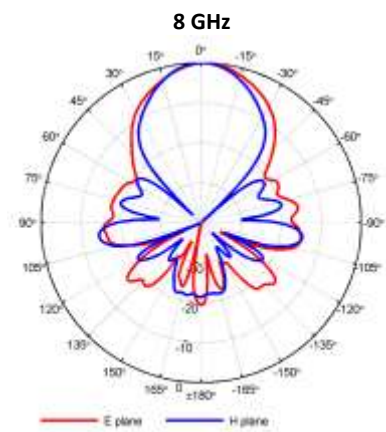
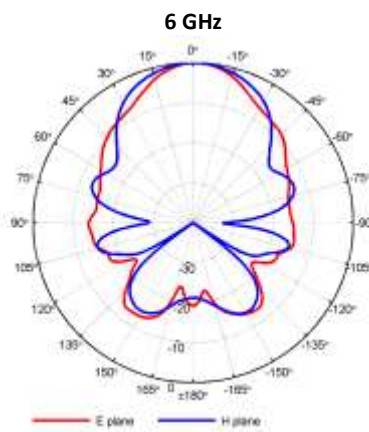
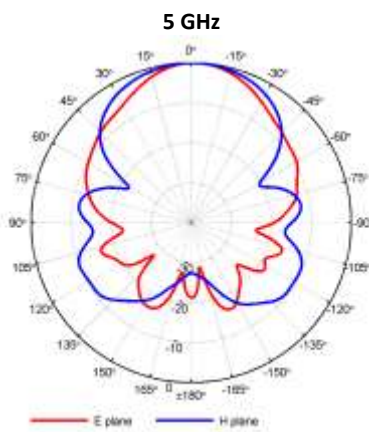
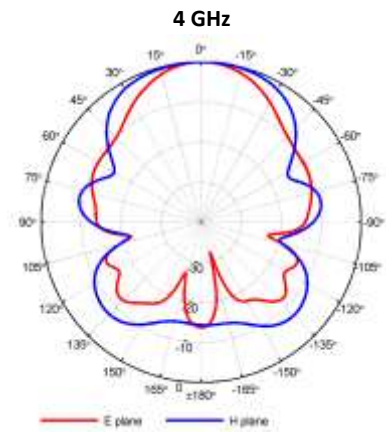
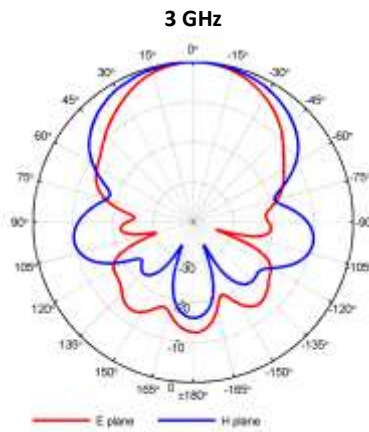
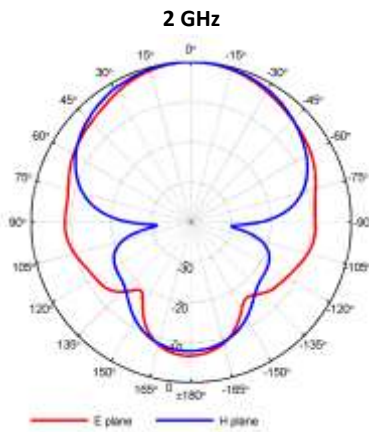
- Linear or circular polarization (with hybrid)



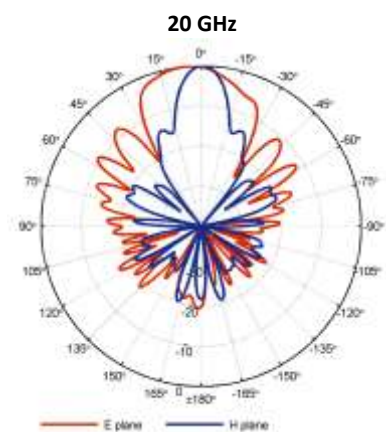
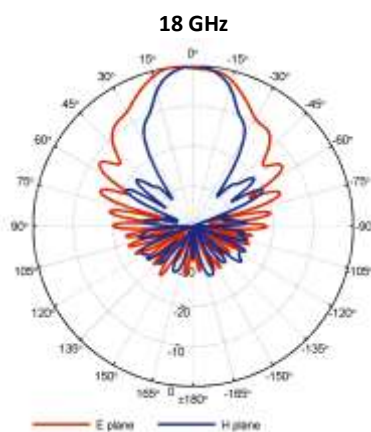
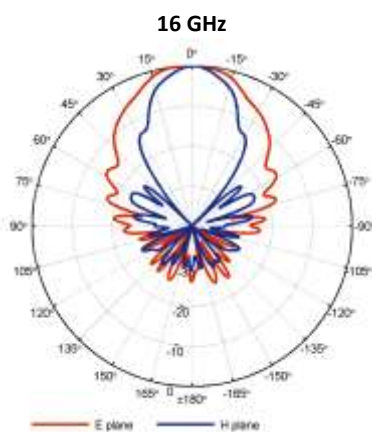
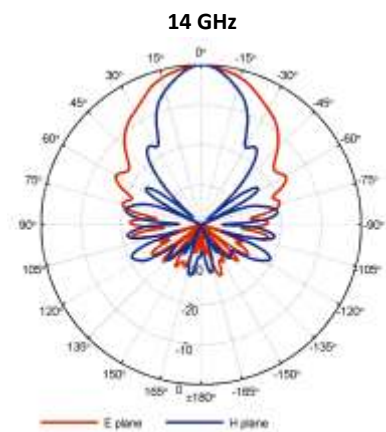
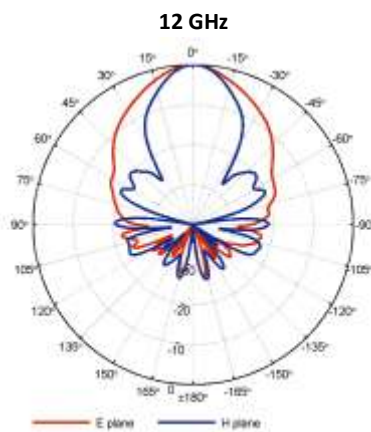
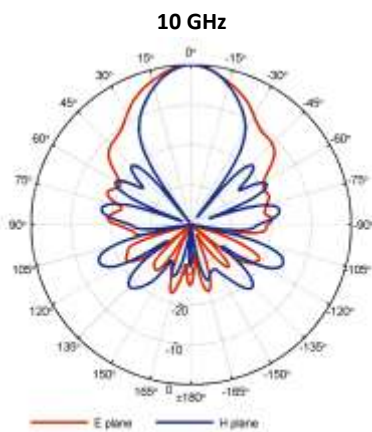
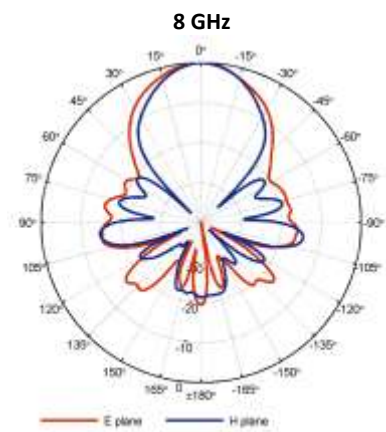
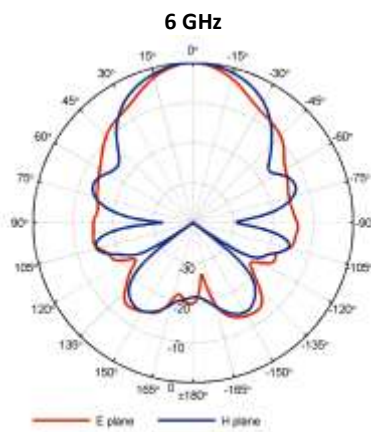
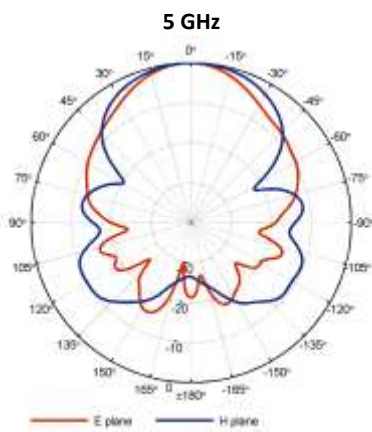
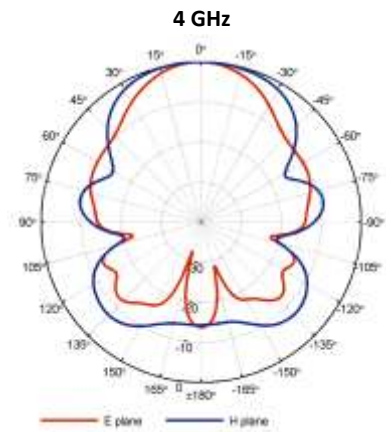
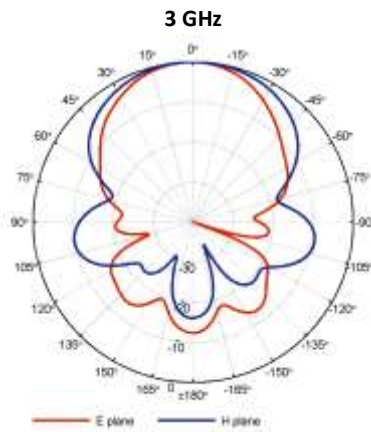
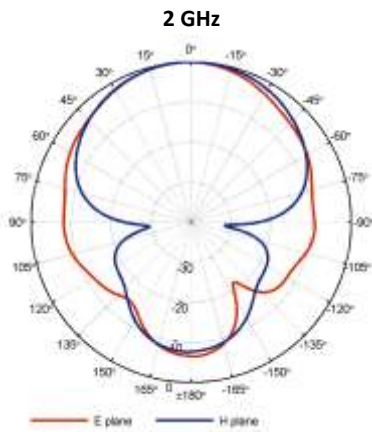
Typical Parameters



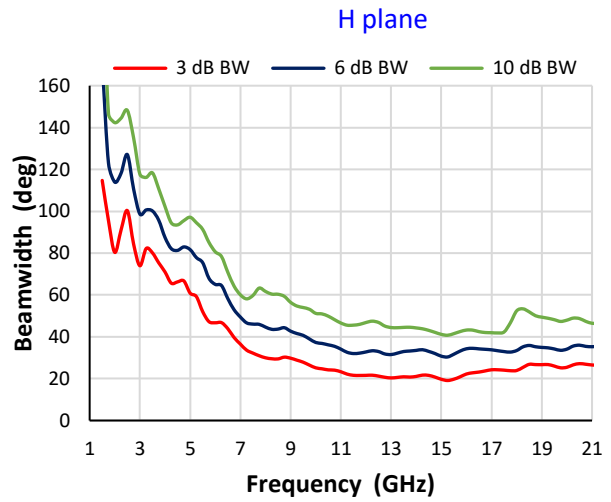
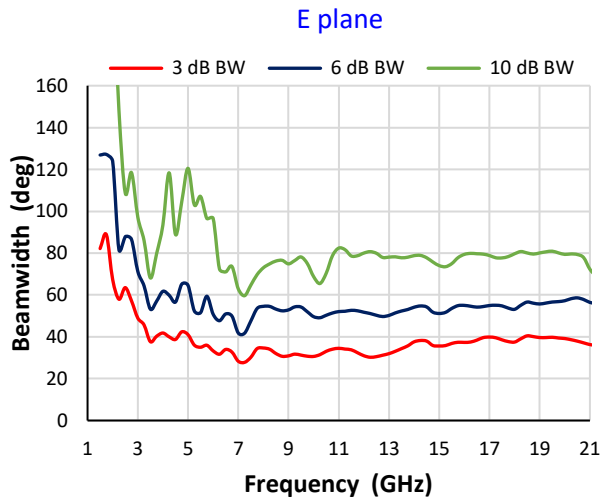
PORT A - Radiation Patterns



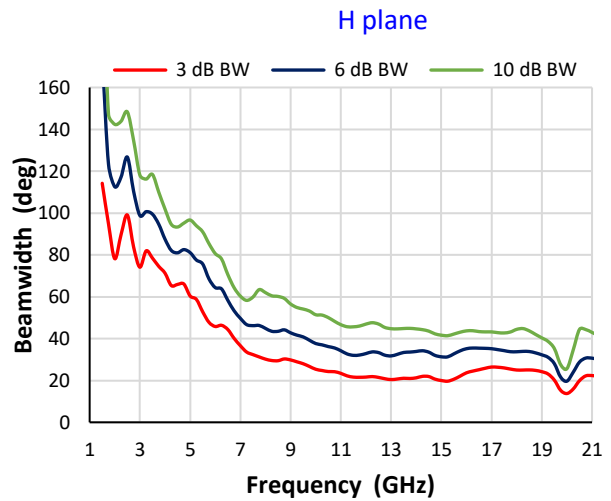
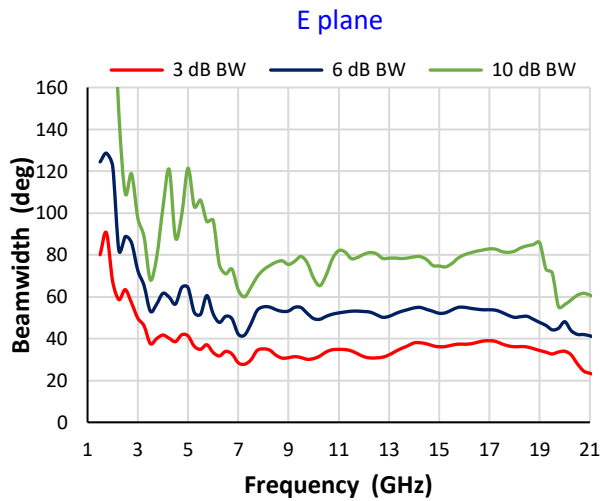
PORT B - Radiation Patterns



Beamwidth – Port A



Beamwidth – Port B



Quad Ridged Horn Antenna – Model QRH18

Electrical Specifications

| | |
|--------------------|-----------------------|
| Frequency Range | 1 GHz – 18 GHz |
| VSWR (max.) | < 2.5 |
| Impedance | 50 Ω |
| Connector | 2 \times SMA female |
| Power (CW / Pulse) | 100 W / 170 W |

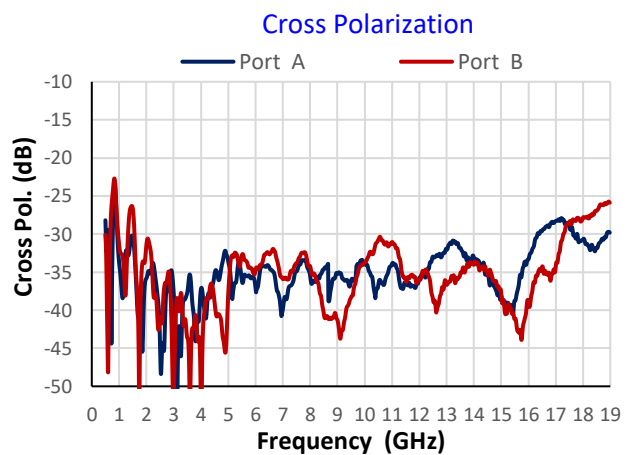
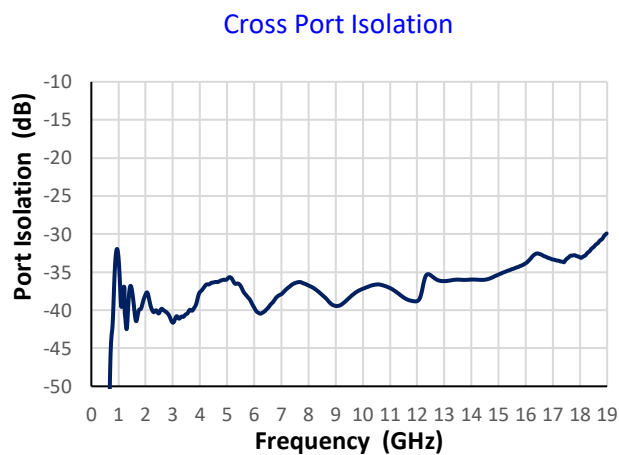
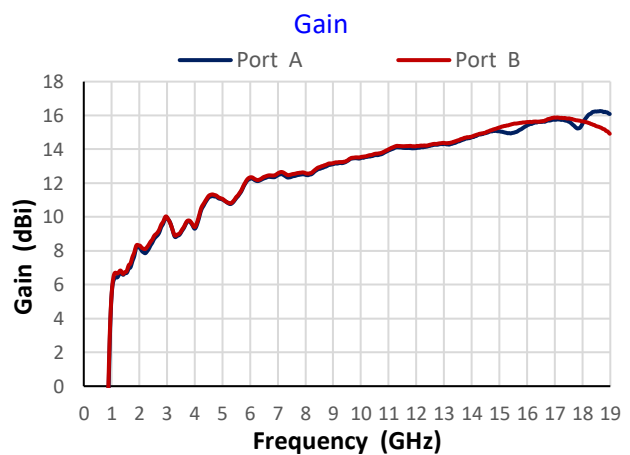
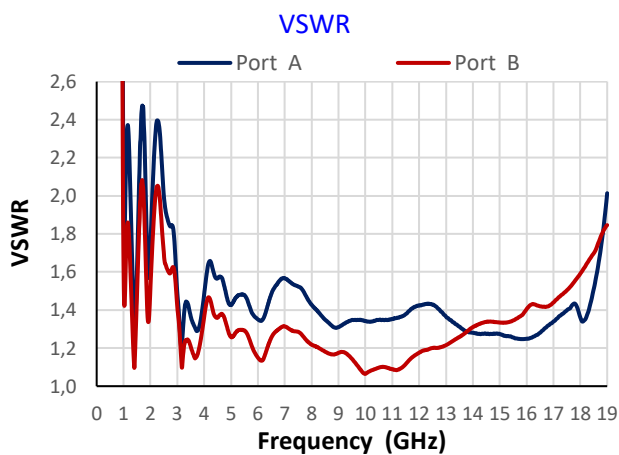
Physical Specifications

| | |
|--------|---------------------|
| Width | 230.6 mm (9.079 in) |
| Depth | 230.6 mm (9.079 in) |
| Height | 229.1 mm (9.020 in) |
| Weight | 650 g (1.433 lb) |

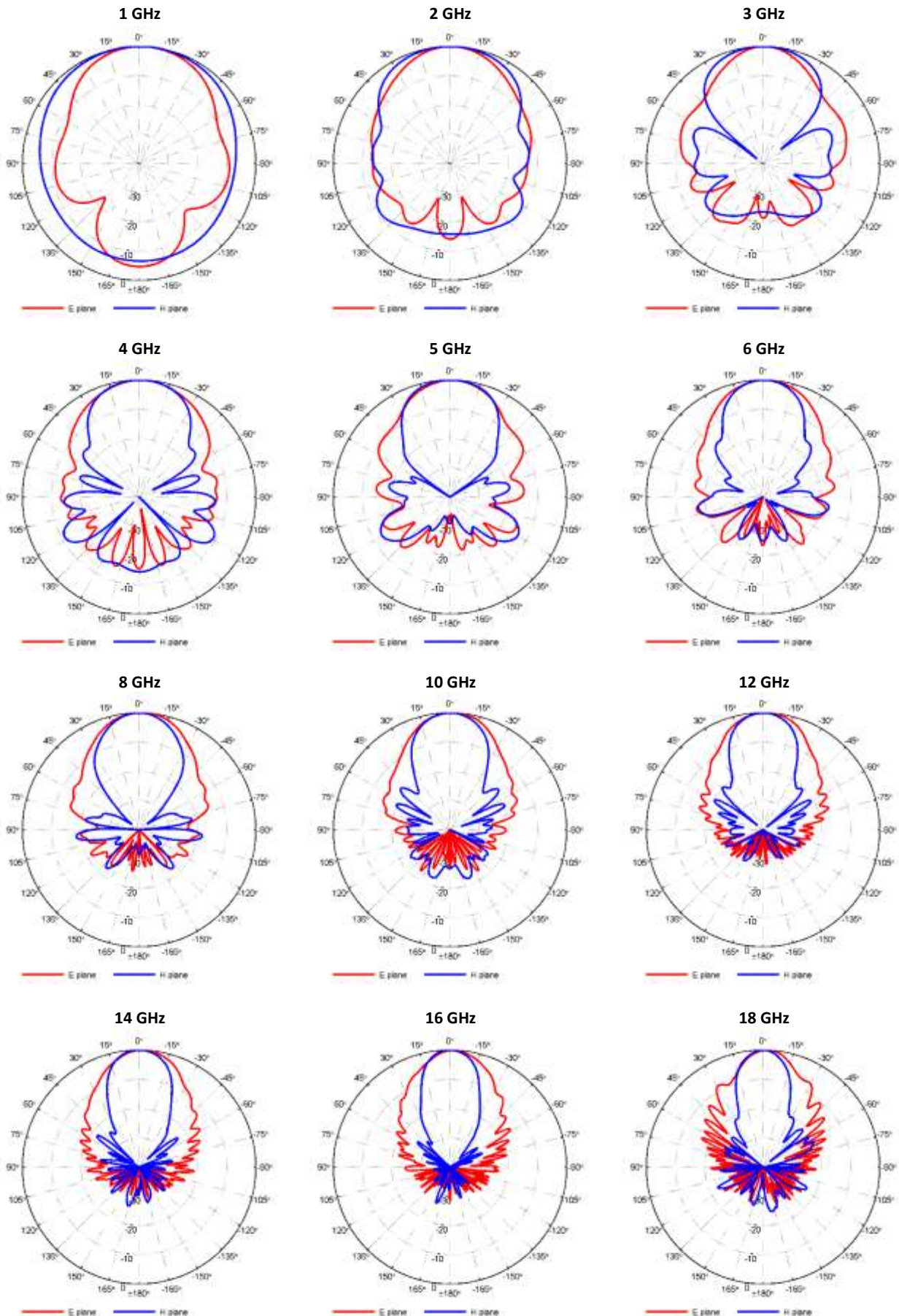
- Linear or circular polarization (with hybrid)



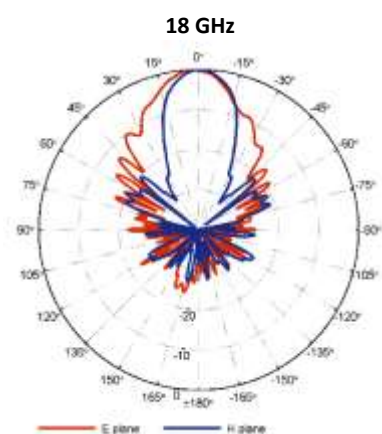
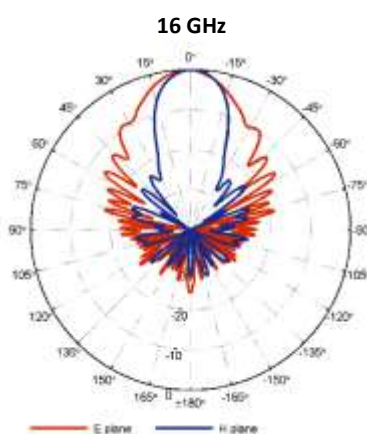
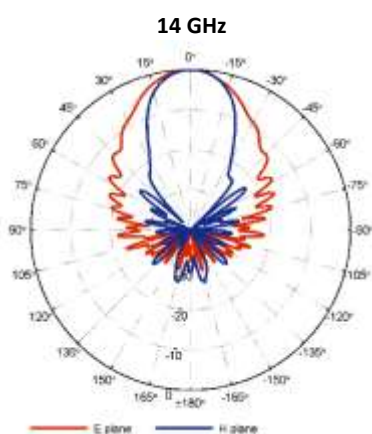
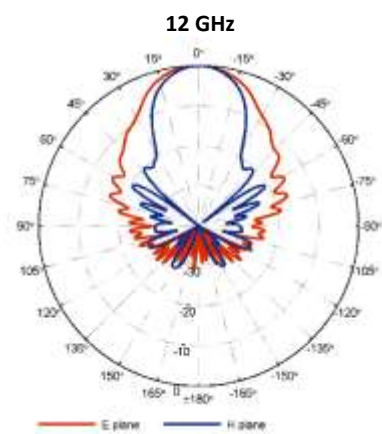
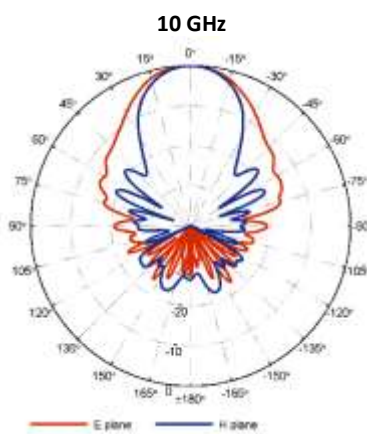
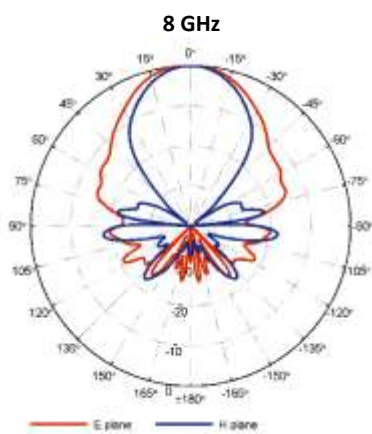
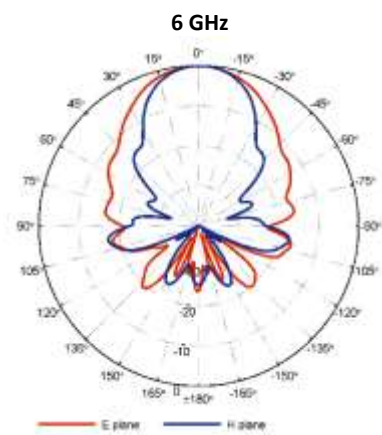
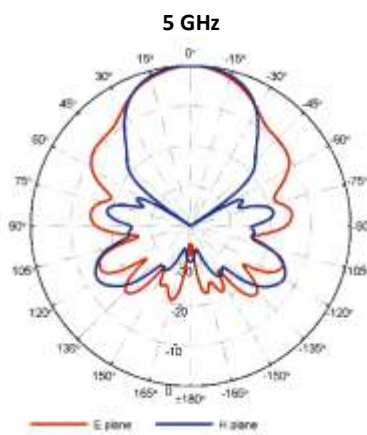
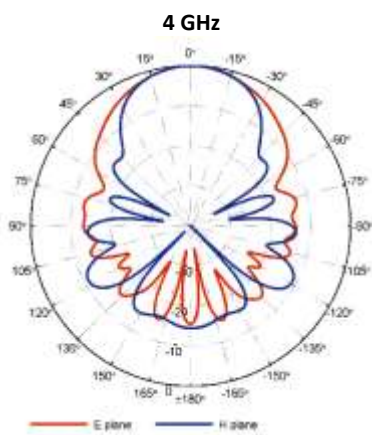
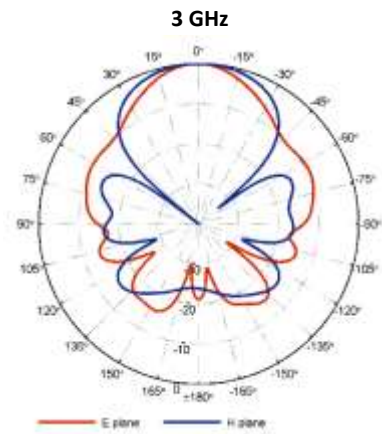
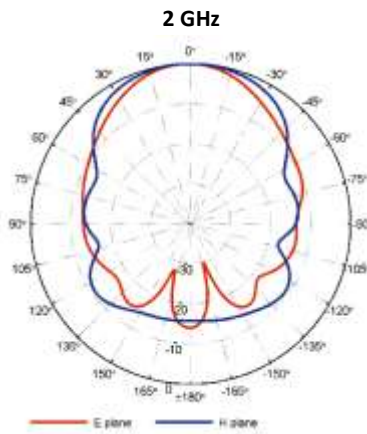
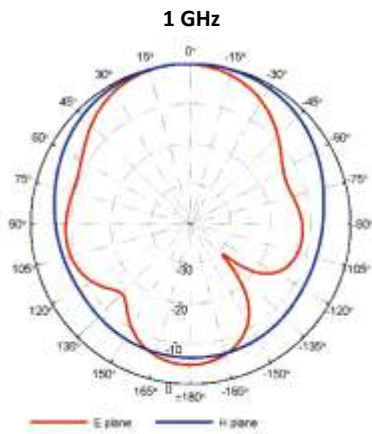
Typical Parameters



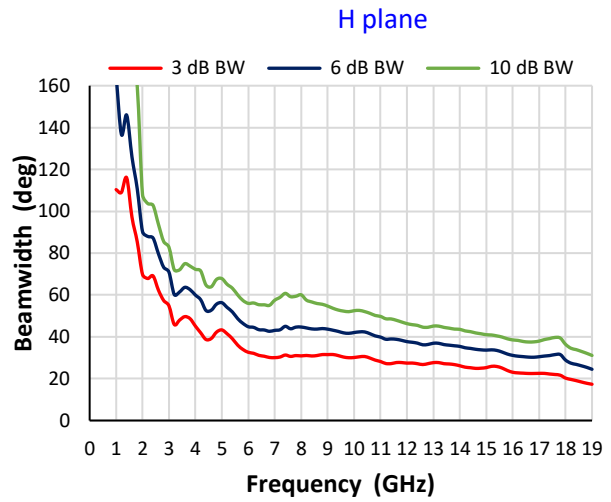
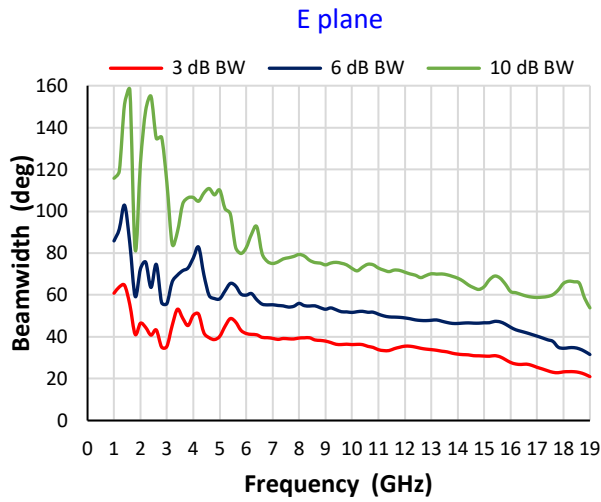
PORT A - Radiation Patterns



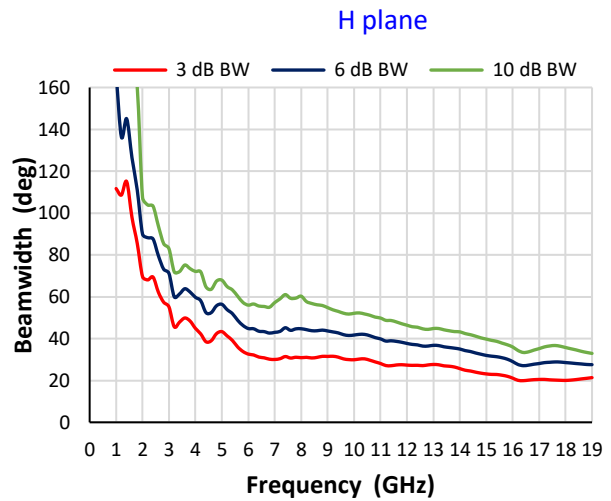
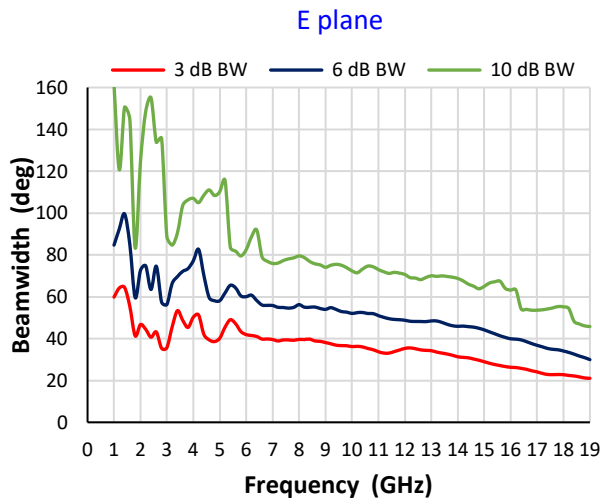
PORT B - Radiation Patterns



Beamwidth – Port A



Beamwidth – Port B



Quad Ridged Horn Antenna – Model QRH11

Electrical Specifications

| | |
|--------------------|-----------------------|
| Frequency Range | 0.73 GHz – 11 GHz |
| VSWR (max.) | < 2.4 |
| Impedance | 50 Ω |
| Connector | 2 \times SMA female |
| Power (CW / Pulse) | 50 W / 100 W |

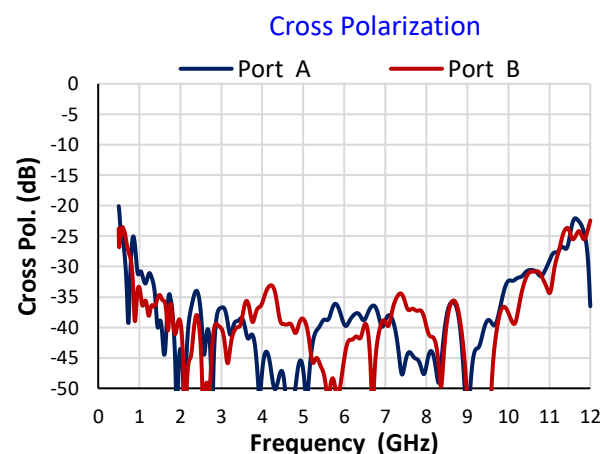
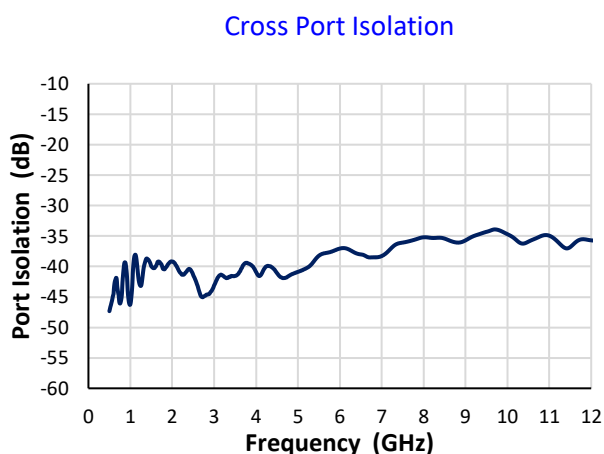
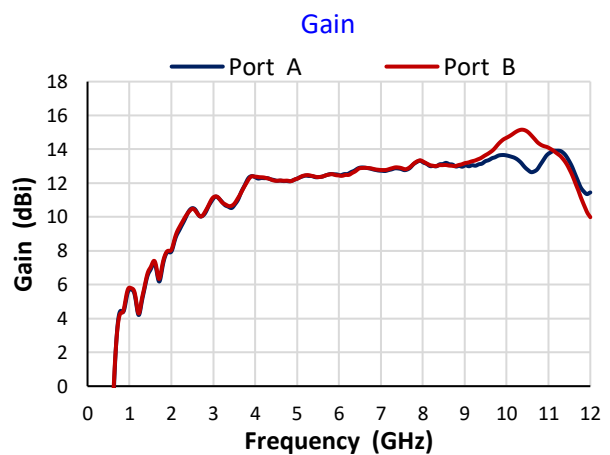
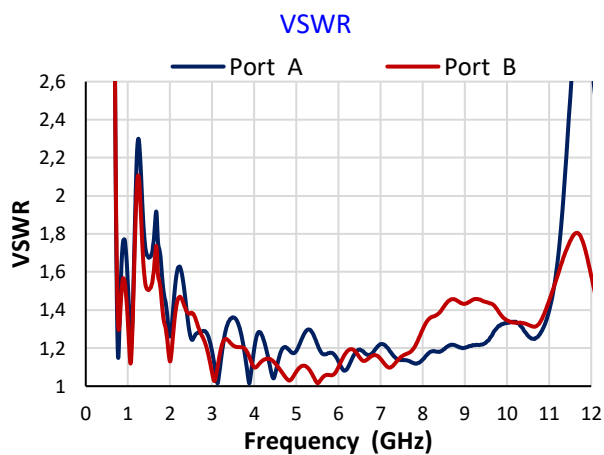
Physical Specifications

| | |
|--------|-------------------|
| Width | 180 mm (7.09 in) |
| Depth | 180 mm (7.09 in) |
| Height | 240 mm (9.45 in) |
| Weight | 1.03 kg (2.28 lb) |

- Linear or circular polarization (with hybrid)

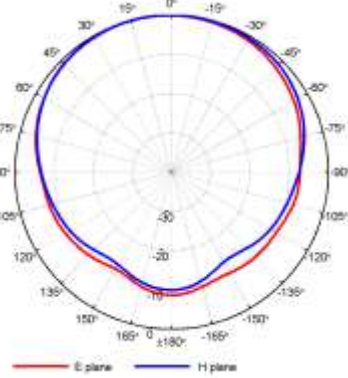


Typical Parameters

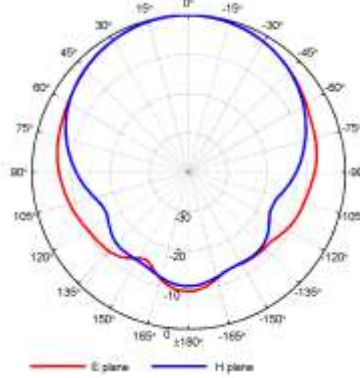


PORT A - Radiation Patterns

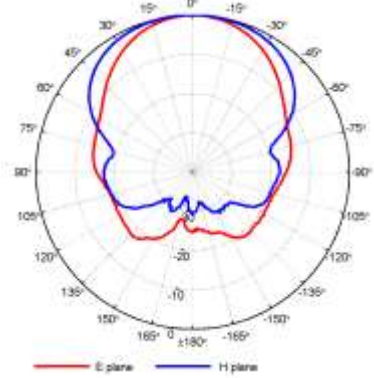
0.75 GHz



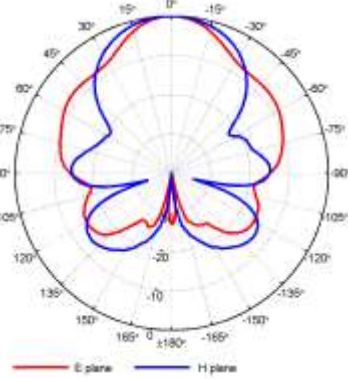
1 GHz



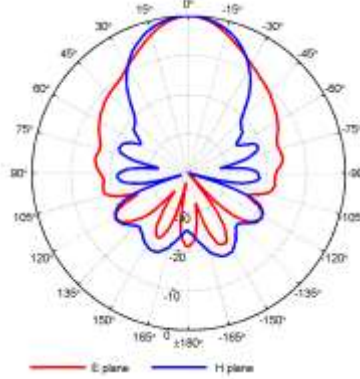
2 GHz



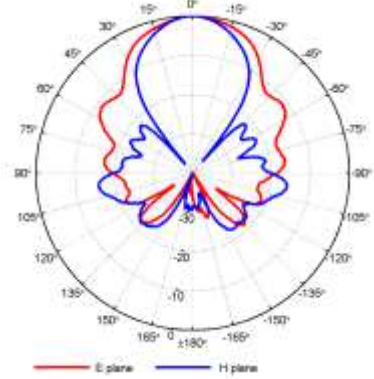
3 GHz



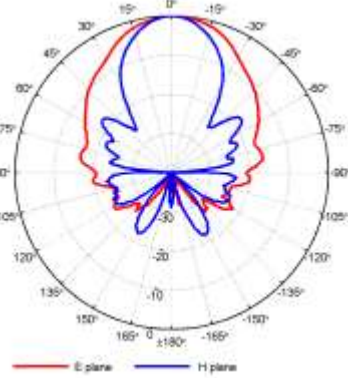
4 GHz



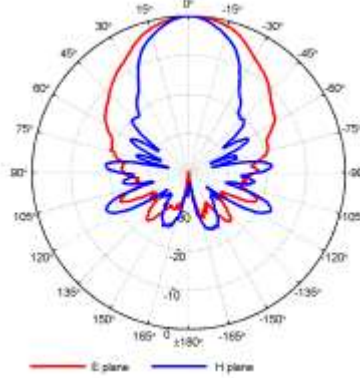
5 GHz



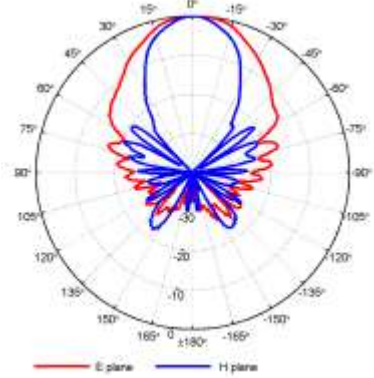
6 GHz



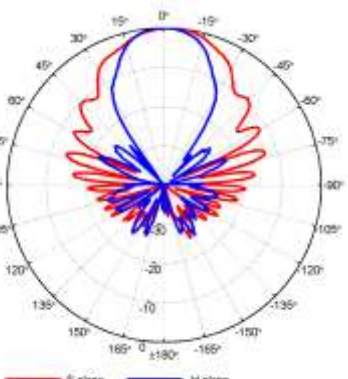
7 GHz



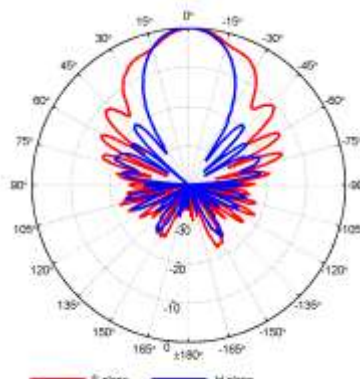
8 GHz



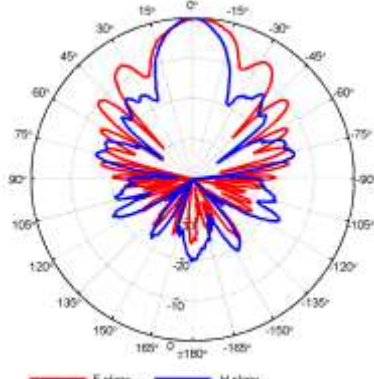
9 GHz



10 GHz

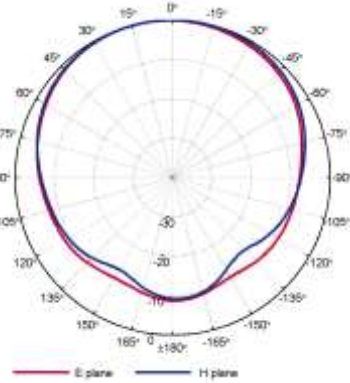


11 GHz

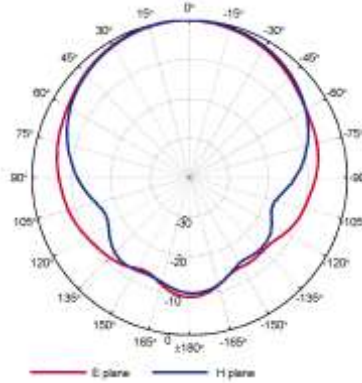


PORT B - Radiation Patterns

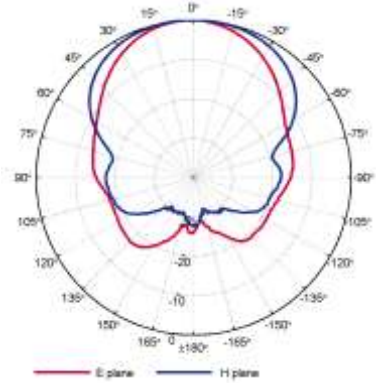
0.75 GHz



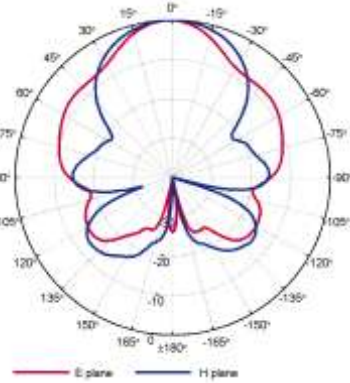
1 GHz



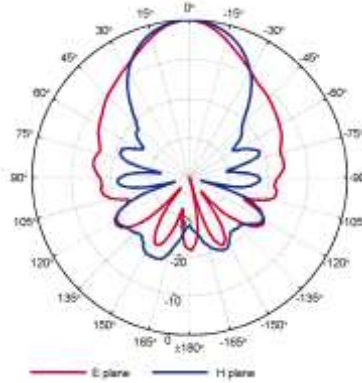
2 GHz



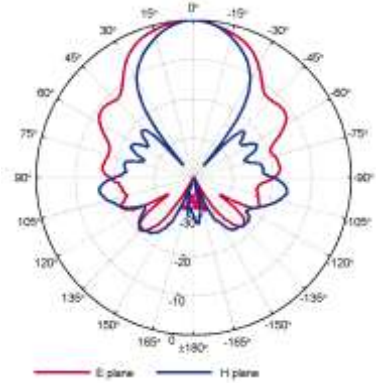
3 GHz



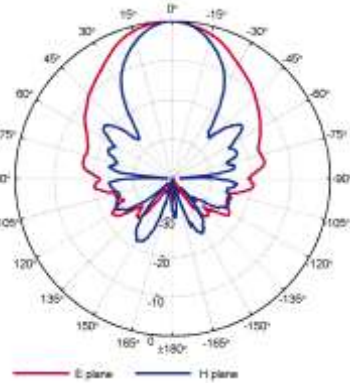
4 GHz



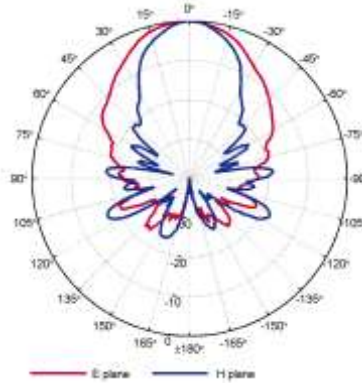
5 GHz



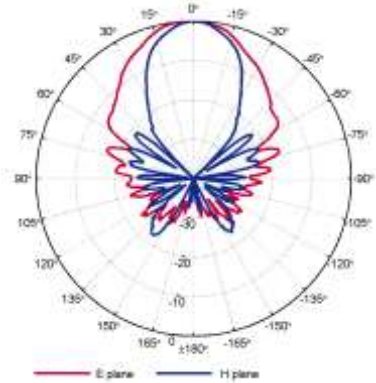
6 GHz



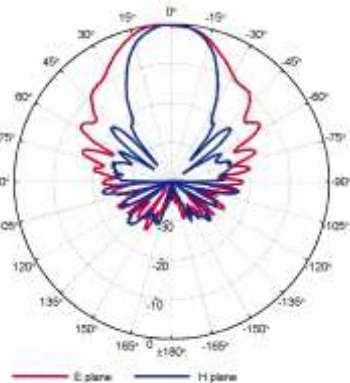
7 GHz



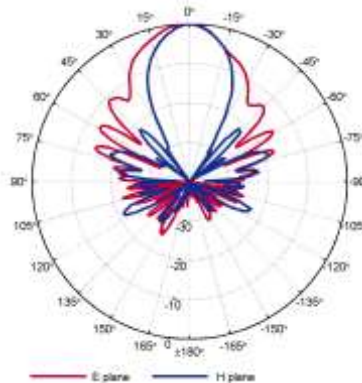
8 GHz



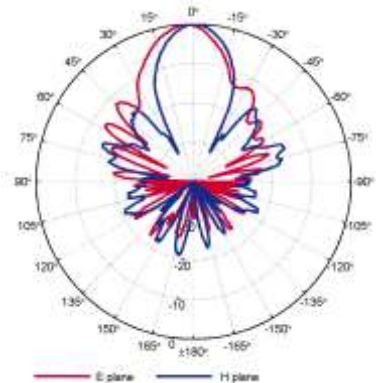
9 GHz



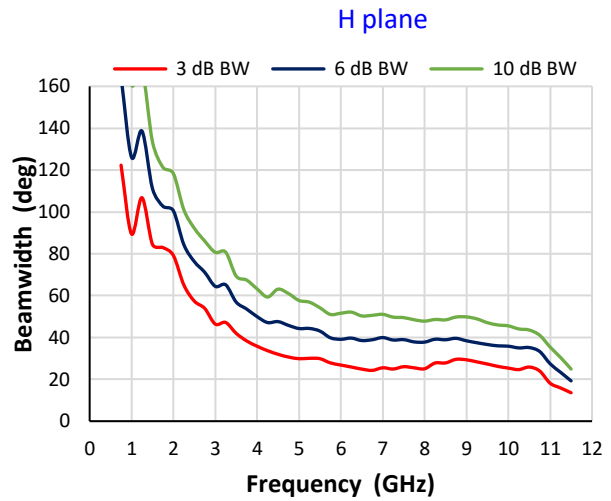
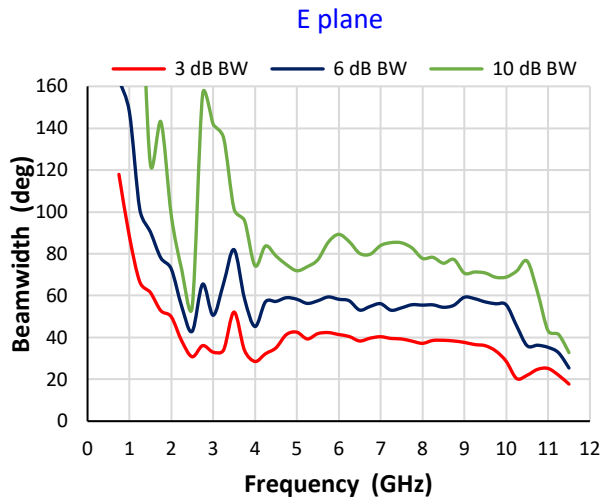
10 GHz



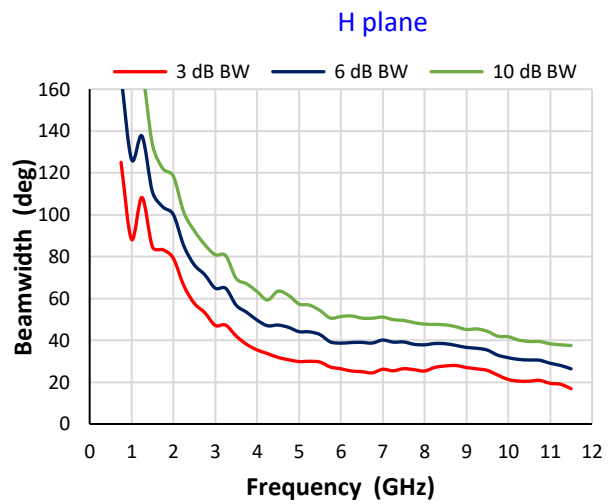
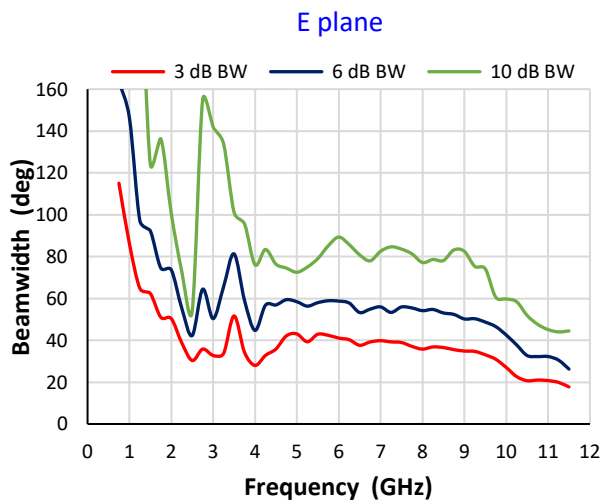
11 GHz



Beamwidth – Port A



Beamwidth – Port B



Quad Ridged Horn Antenna – Model QRH400

Electrical Specifications

| | |
|--------------------|-----------------|
| Frequency Range | 0.4 GHz – 6 GHz |
| VSWR (max.) | < 2.3 |
| Impedance | 50 Ω |
| Connector | 2x N female |
| Power (CW / Pulse) | 200 W / 350 W |

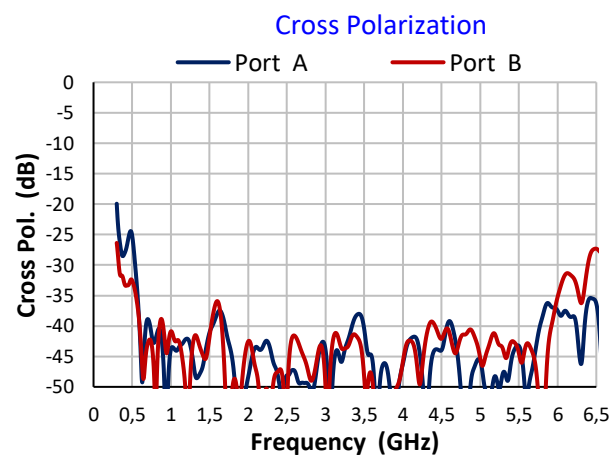
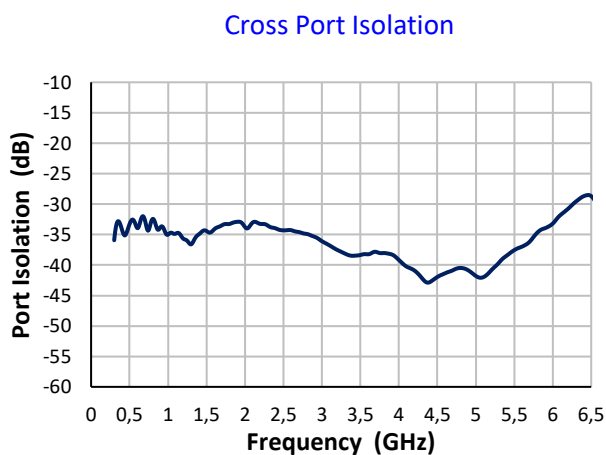
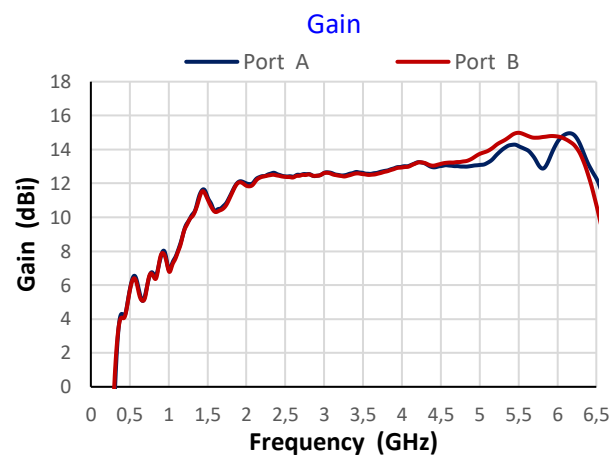
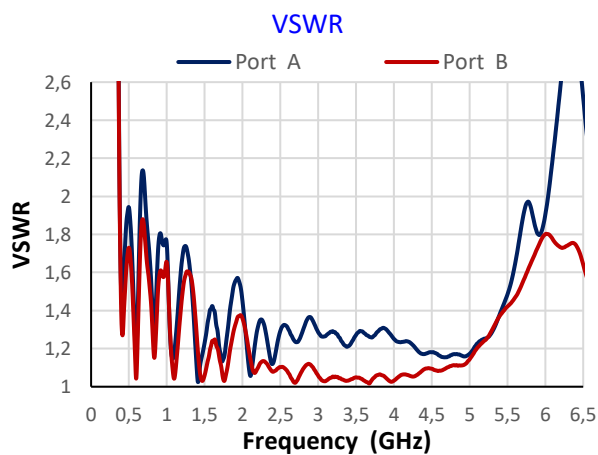
Physical Specifications

| | |
|--------|--------------------|
| Width | 33.5 cm (13.19 in) |
| Depth | 33.5 cm (13.19 in) |
| Height | 43.3 cm (17.05 in) |
| Weight | 4.0 kg (8.82 lb) |

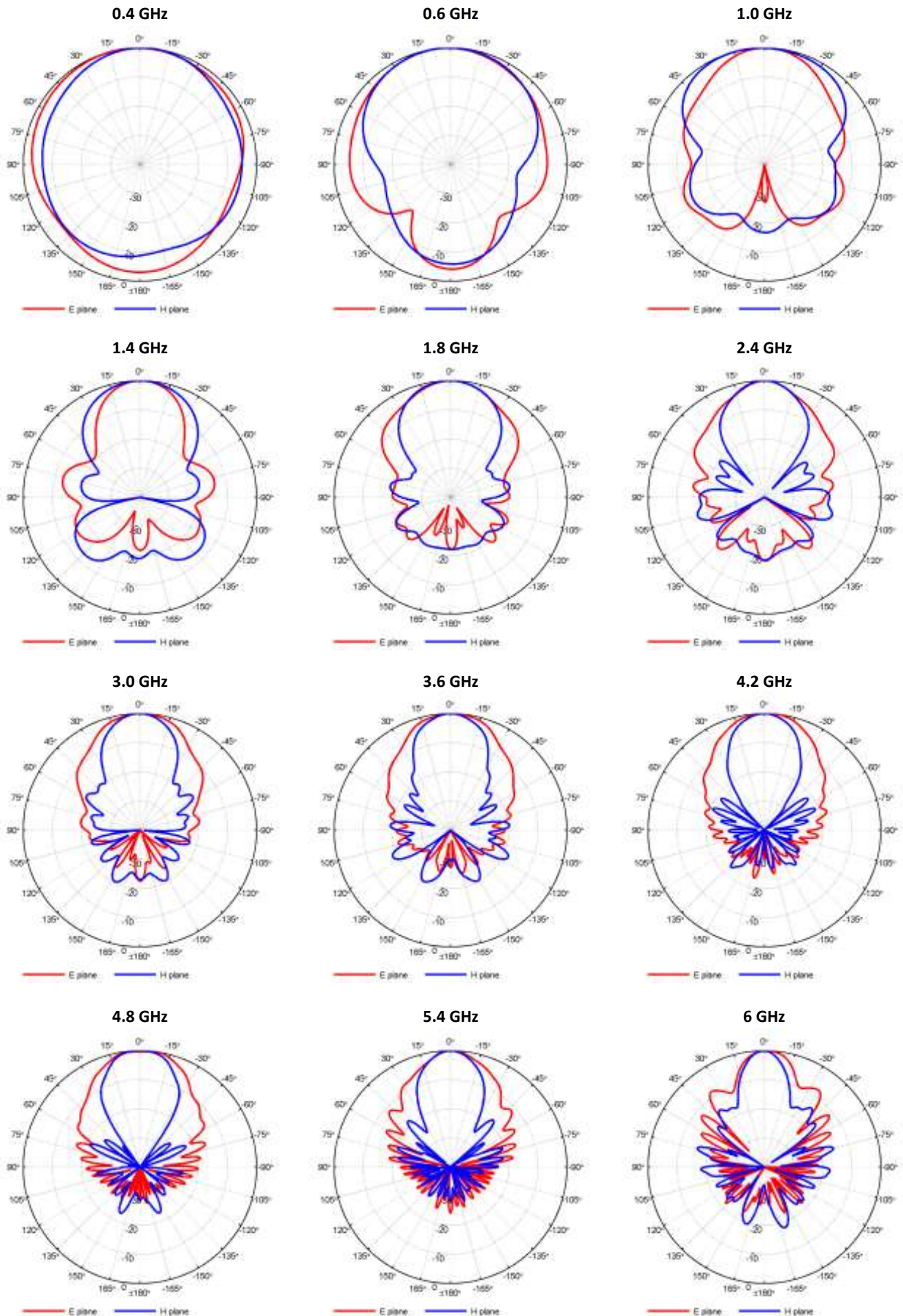
- Linear or circular polarization (with hybrid)



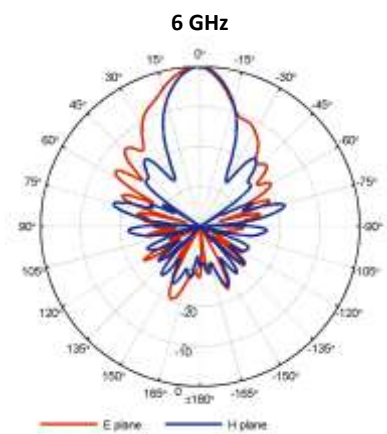
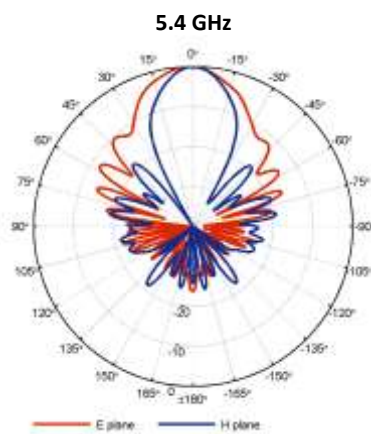
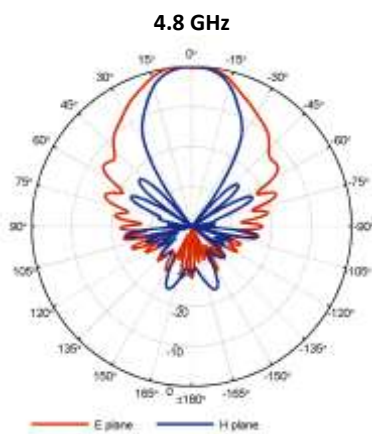
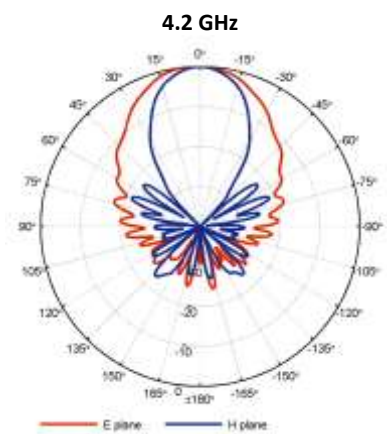
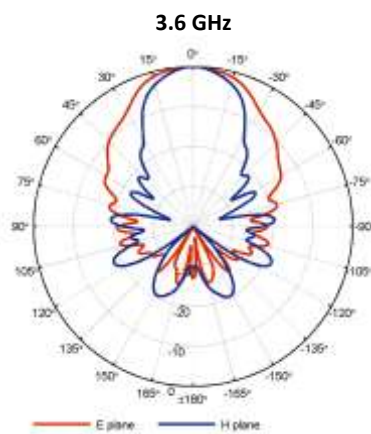
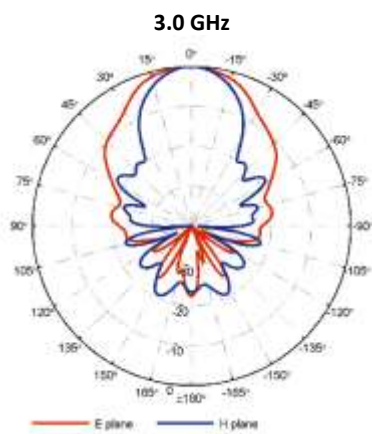
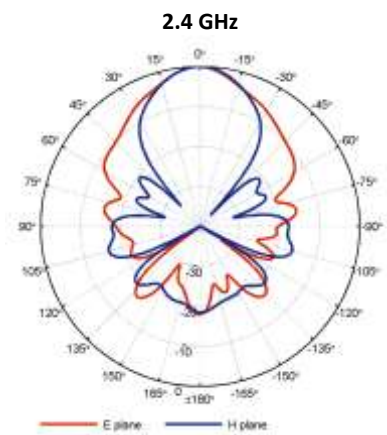
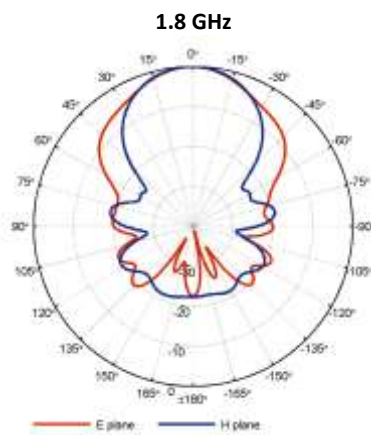
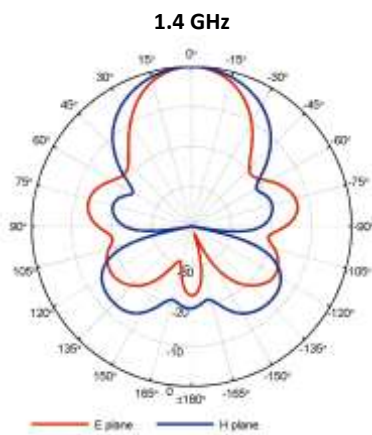
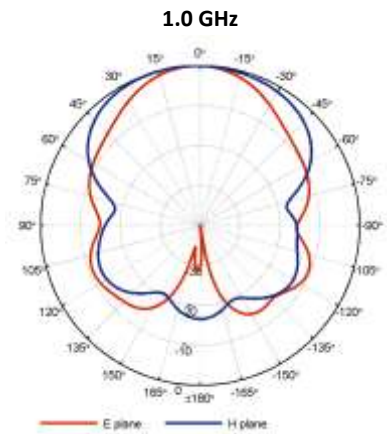
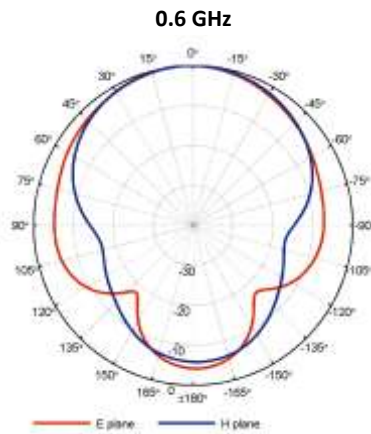
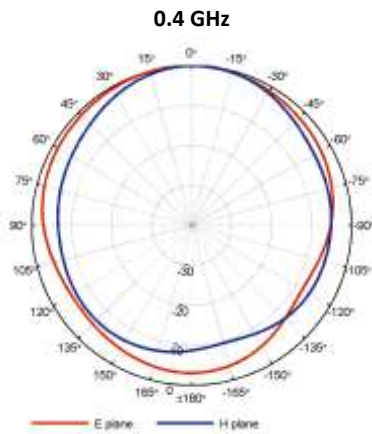
Typical Parameters



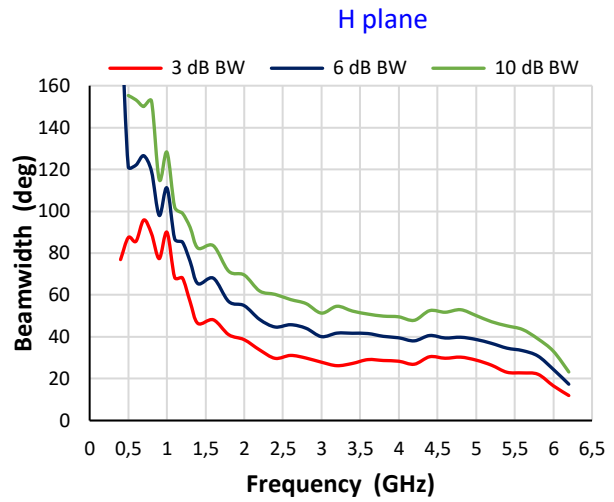
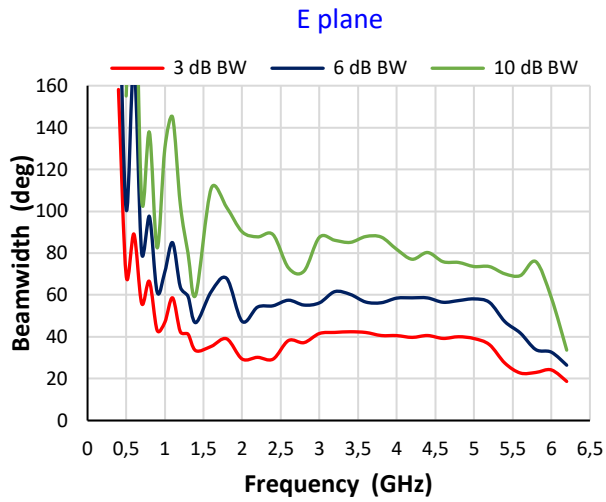
PORT A - Radiation Patterns



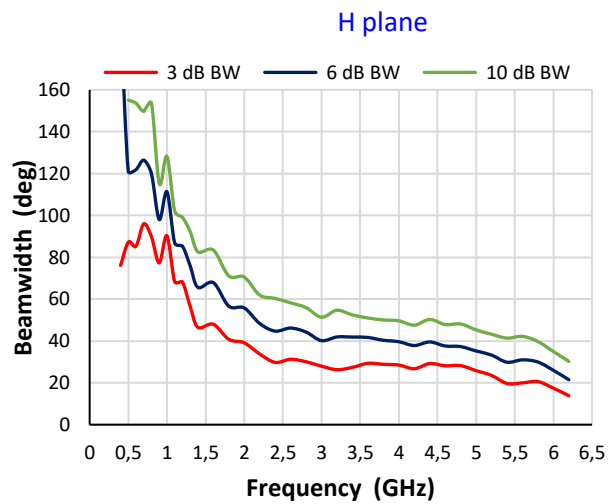
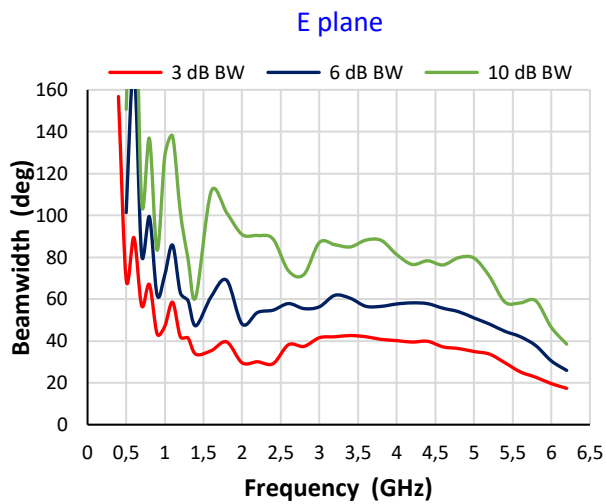
PORT B - Radiation Patterns



Beamwidth – Port A



Beamwidth – Port B



Quad Ridged Horn Antenna – Model QRH300

Electrical Specifications

| | |
|--------------------|-------------------|
| Frequency Range | 0.3 GHz – 4.5 GHz |
| VSWR (max.) | < 2.2 |
| Impedance | 50 Ω |
| Connector | 2x N female |
| Power (CW / Pulse) | 400 W / 750 W |

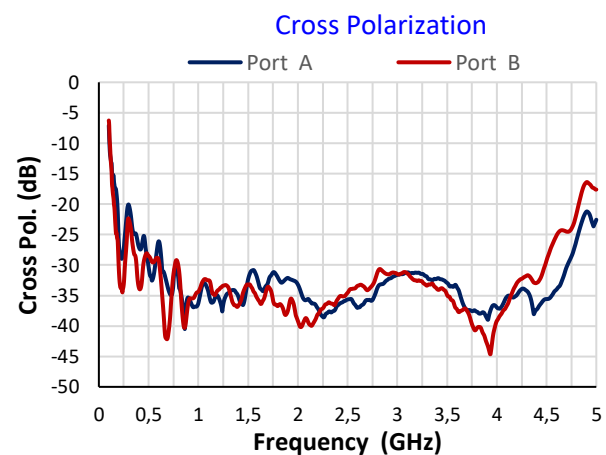
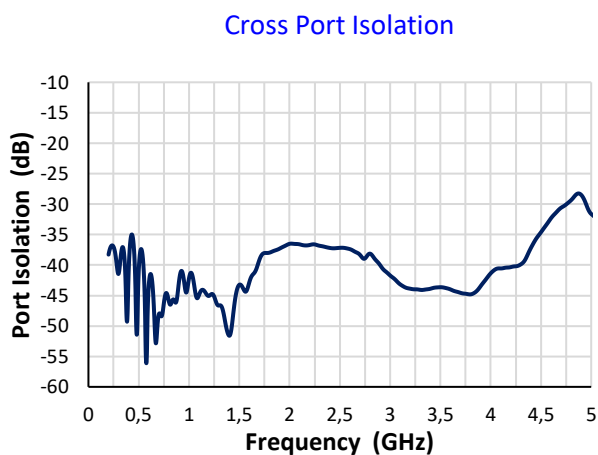
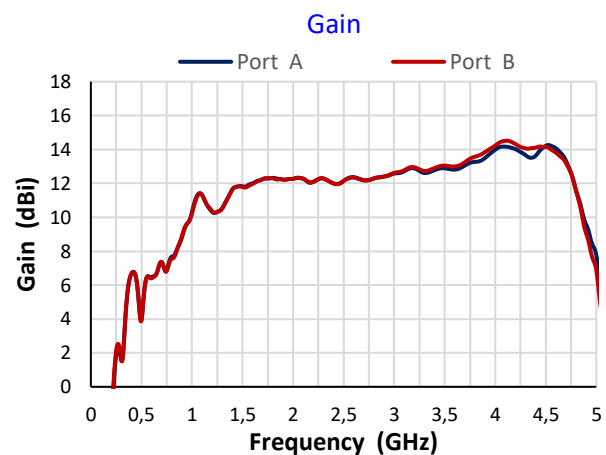
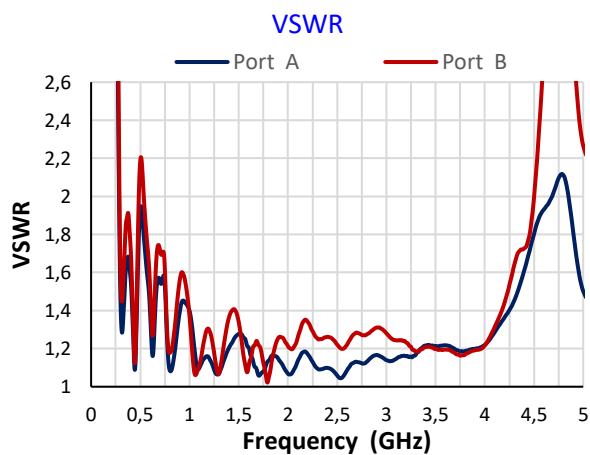
Physical Specifications

| | |
|--------|-------------------|
| Width | 450 mm (17.72 in) |
| Depth | 450 mm (17.72 in) |
| Height | 570 mm (22.44 in) |
| Weight | 9.0 kg (19.85 lb) |

- Linear or circular polarization (with hybrid)

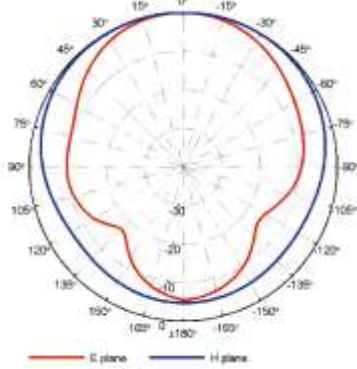


Typical Parameters

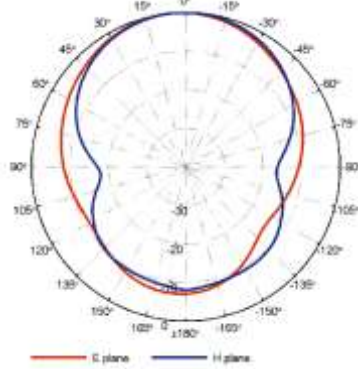


PORT B - Radiation Patterns

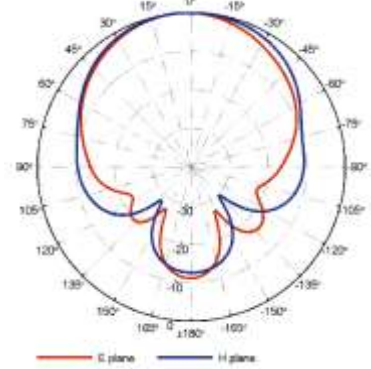
0.3 GHz



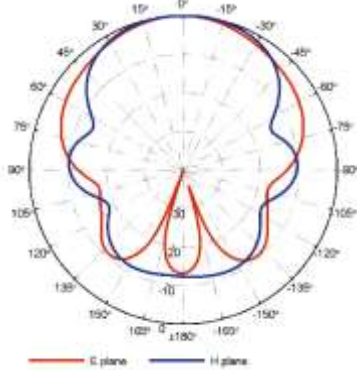
0.4 GHz



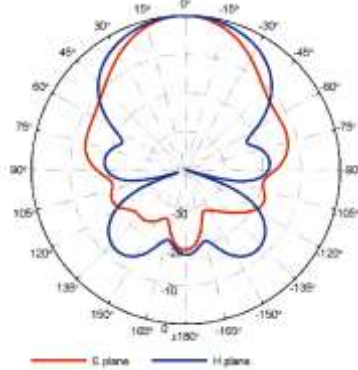
0.6 GHz



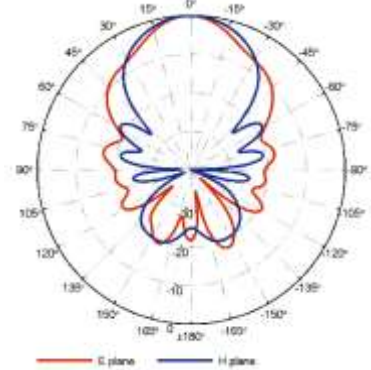
0.8 GHz



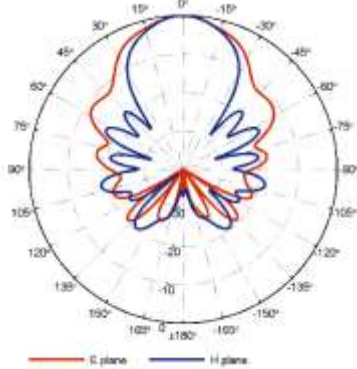
1.0 GHz



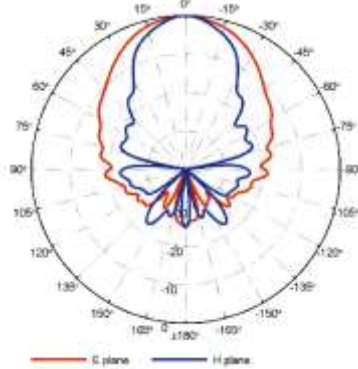
1.5 GHz



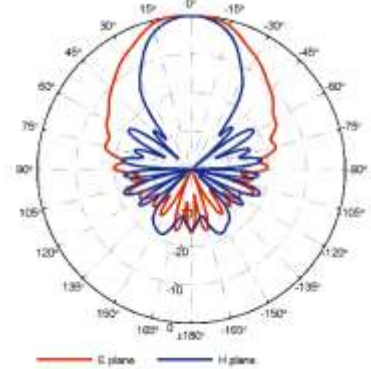
2.0 GHz



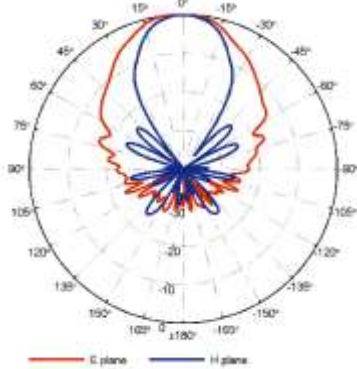
2.5 GHz



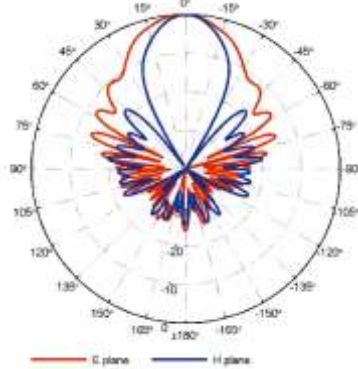
3.0 GHz



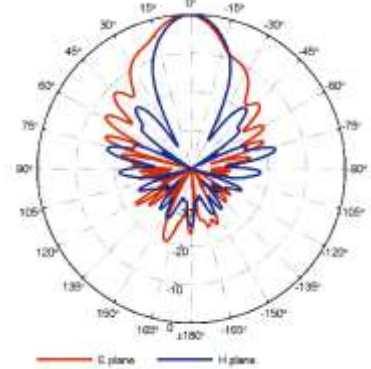
3.5 GHz



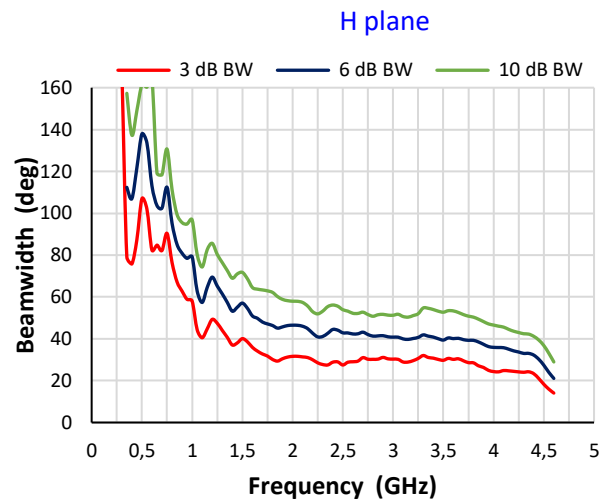
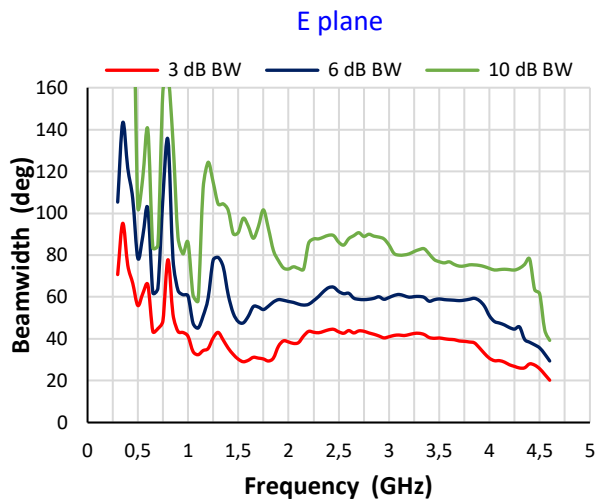
4.0 GHz



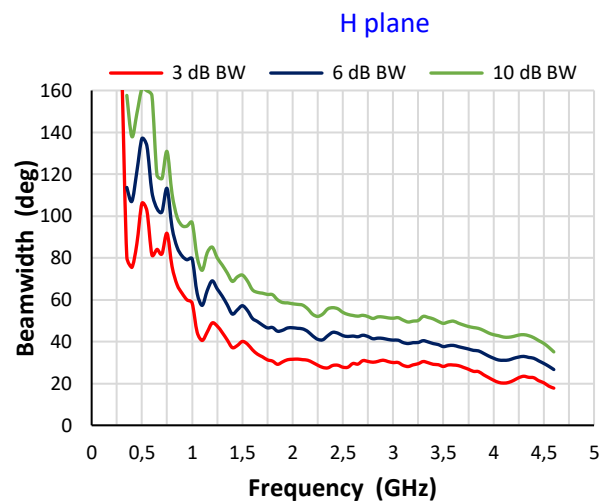
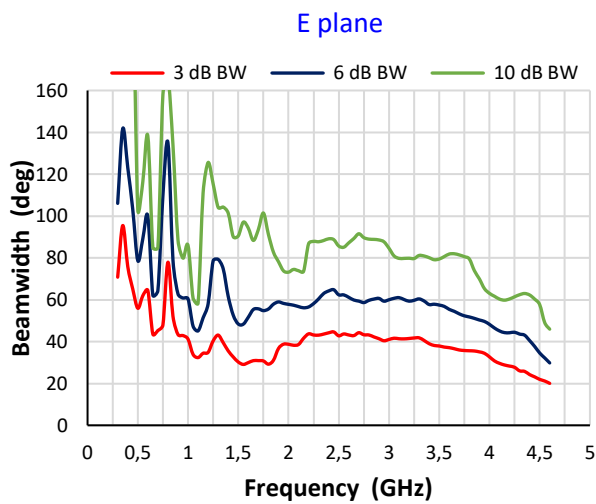
4.5 GHz



Beamwidth – Port A



Beamwidth – Port B



Double Ridged Horn Antenna – Model DRH110

Electrical Specifications

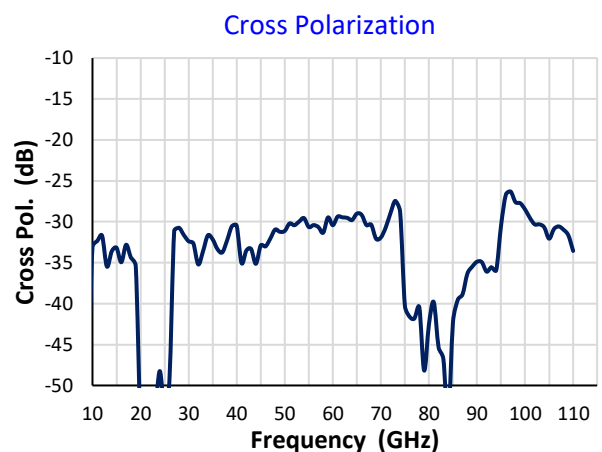
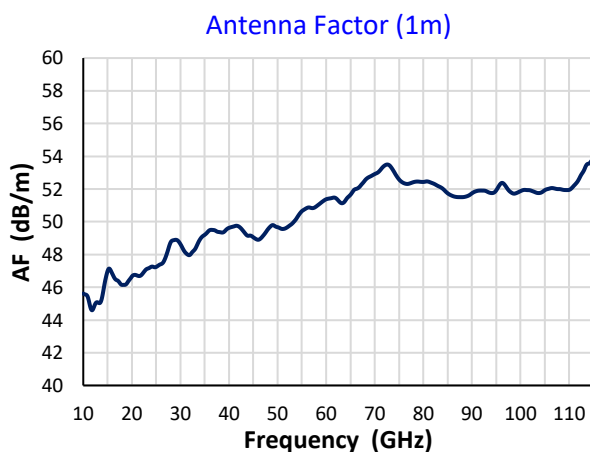
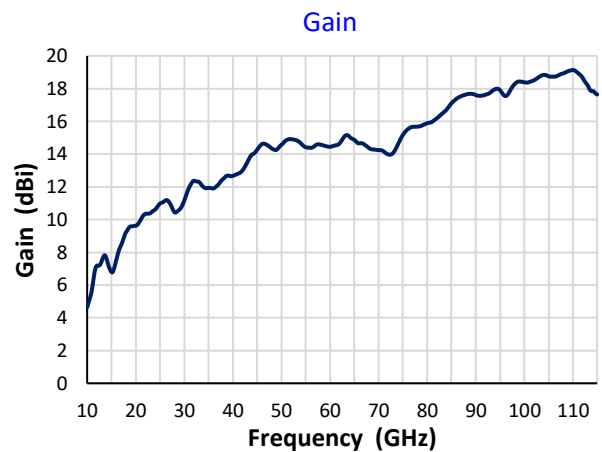
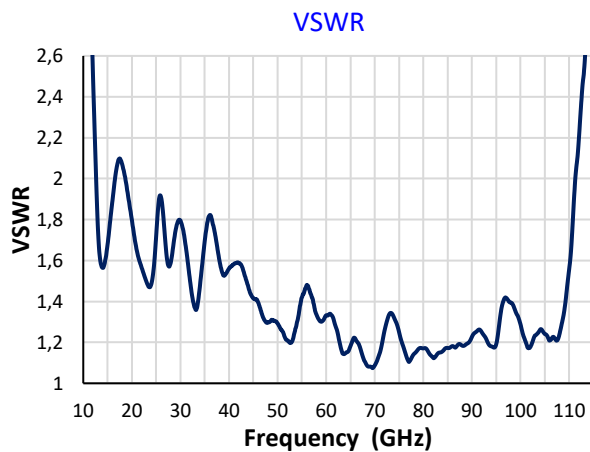
| | |
|--------------------|------------------|
| Frequency Range | 14 GHz – 110 GHz |
| VSWR (max.) | < 2.1 |
| Impedance | 50 Ω |
| Connector | 1.0 mm female |
| Power (CW / Pulse) | 4 W / 8 W |

Physical Specifications

| | |
|--------|--------------------|
| Width | 18.6 mm (0.732 in) |
| Depth | 31.9 mm (1.256 in) |
| Height | 15.7 mm (0.618 in) |
| Weight | 22 g (0.049 lb) |

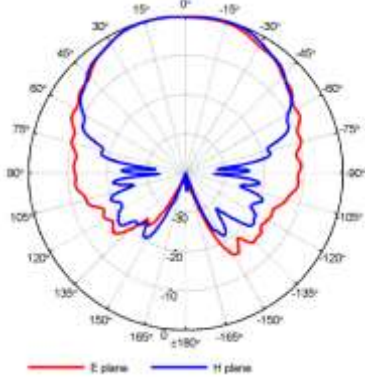


Typical Parameters

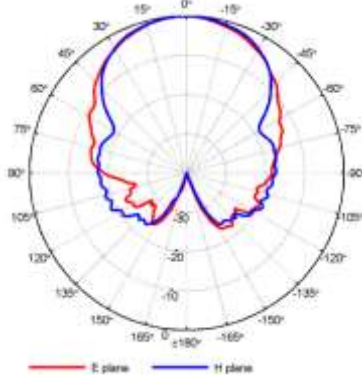


Radiation Patterns

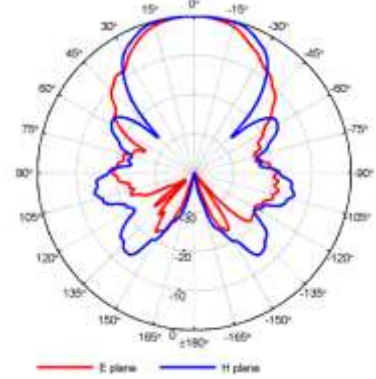
14 GHz



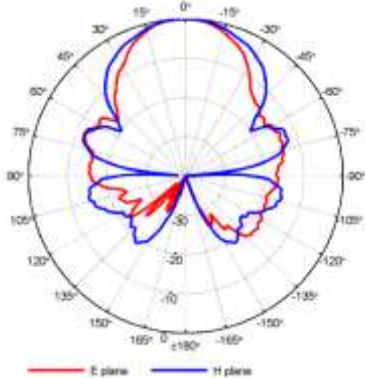
20 GHz



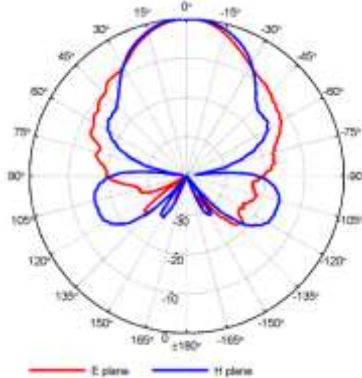
25 GHz



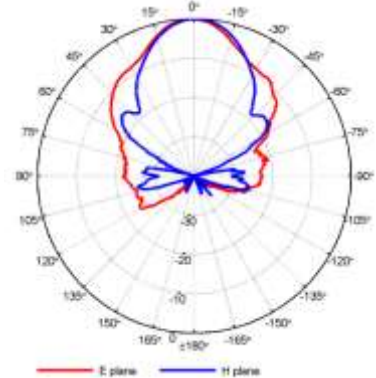
30 GHz



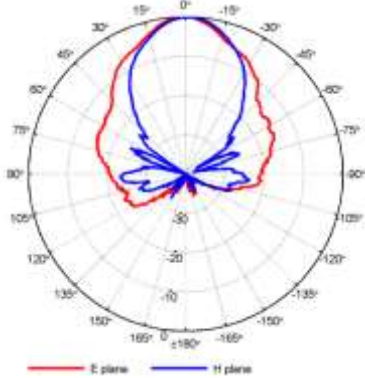
40 GHz



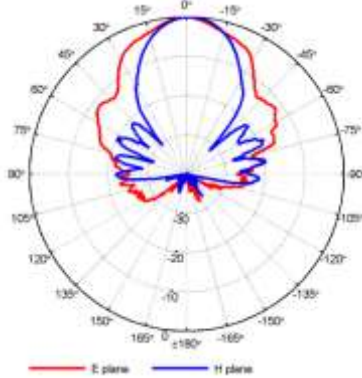
50 GHz



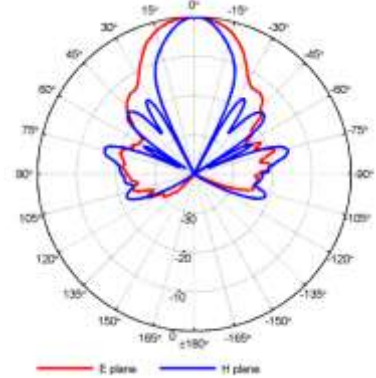
60 GHz



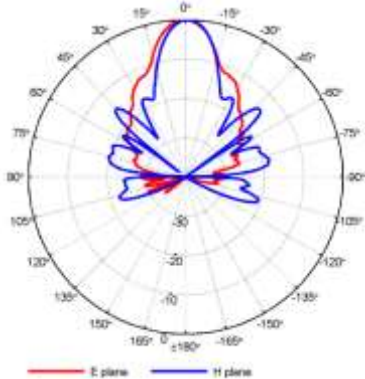
70 GHz



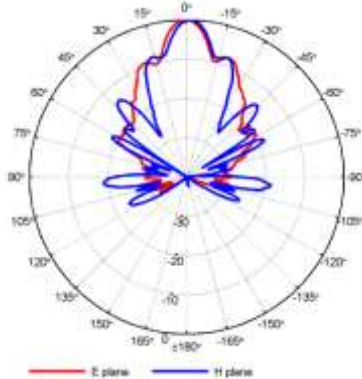
80 GHz



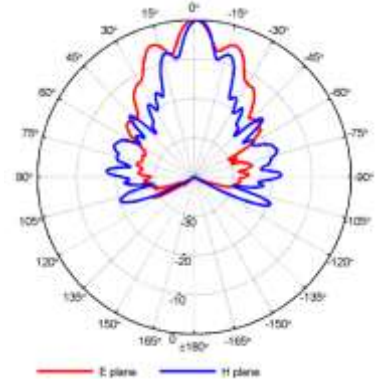
90 GHz



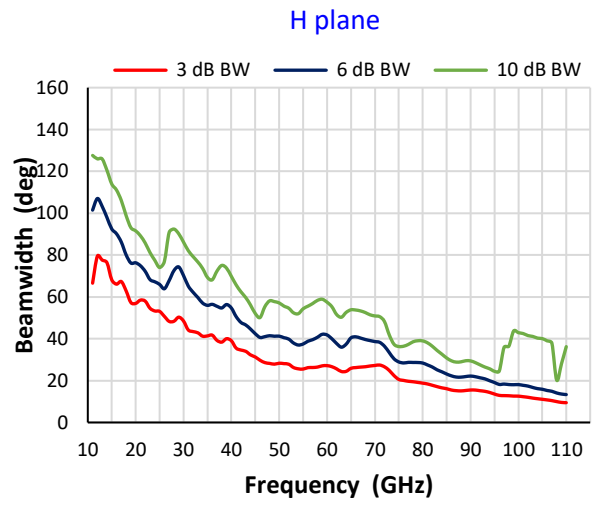
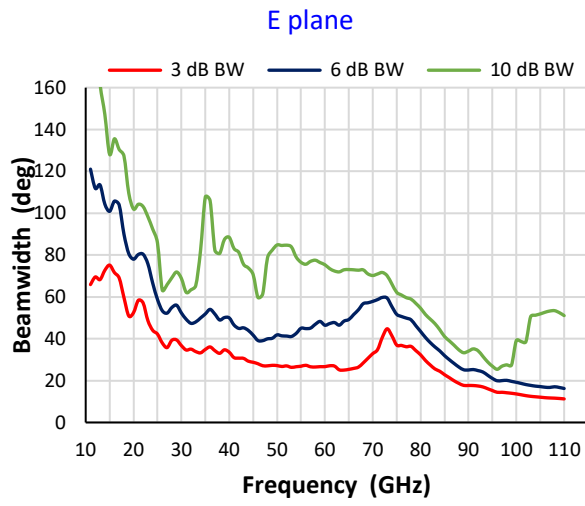
100 GHz



110 GHz



Beamwidth



Double Ridged Horn Antenna – Model DRH67

Electrical Specifications

| | |
|--------------------|----------------|
| Frequency Range | 6 GHz – 67 GHz |
| VSWR (max.) | < 1.9 |
| Impedance | 50 Ω |
| Connector | 1.85mm female |
| Power (CW / Pulse) | 5 W / 10 W |

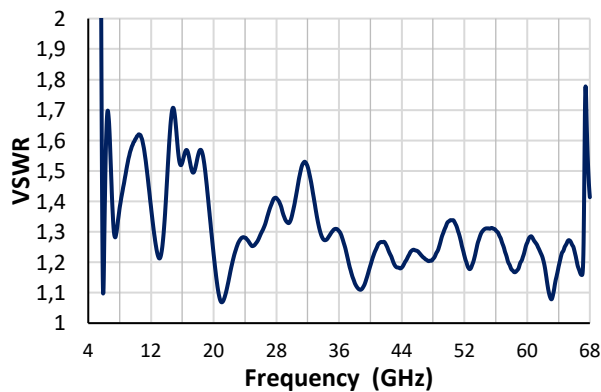
Physical Specifications

| | |
|--------|--------------------|
| Width | 32.7 mm (1.287 in) |
| Depth | 32 mm (1.260 in) |
| Height | 48.5 mm (1.909 in) |
| Weight | 50 g (0.11 lb) |

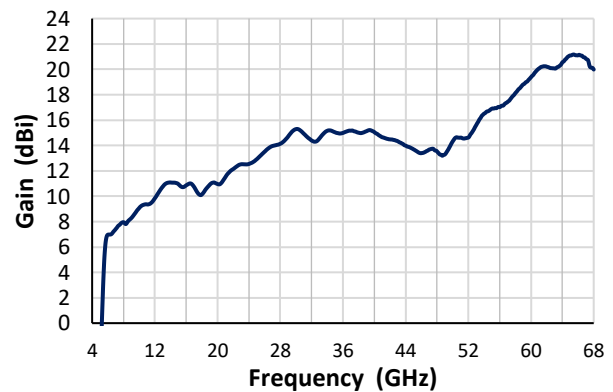


Typical Parameters

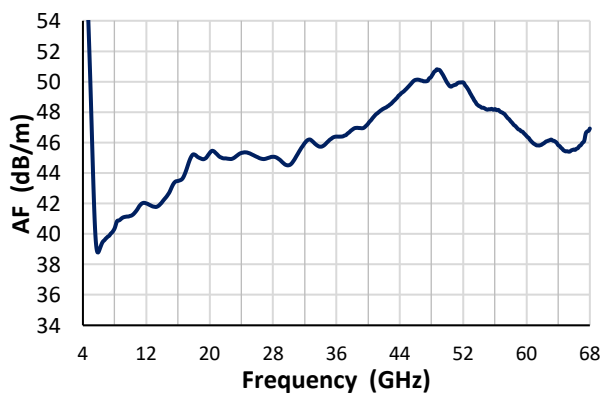
VSWR



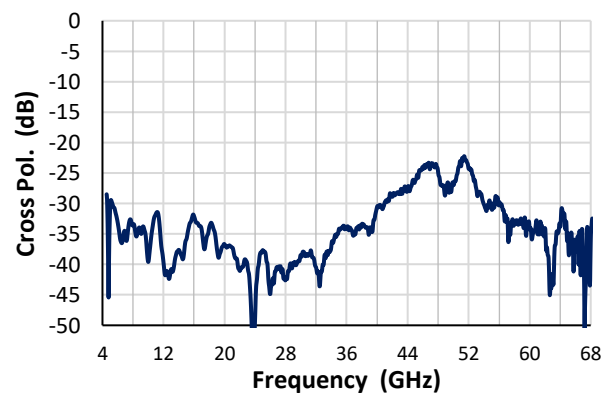
Gain



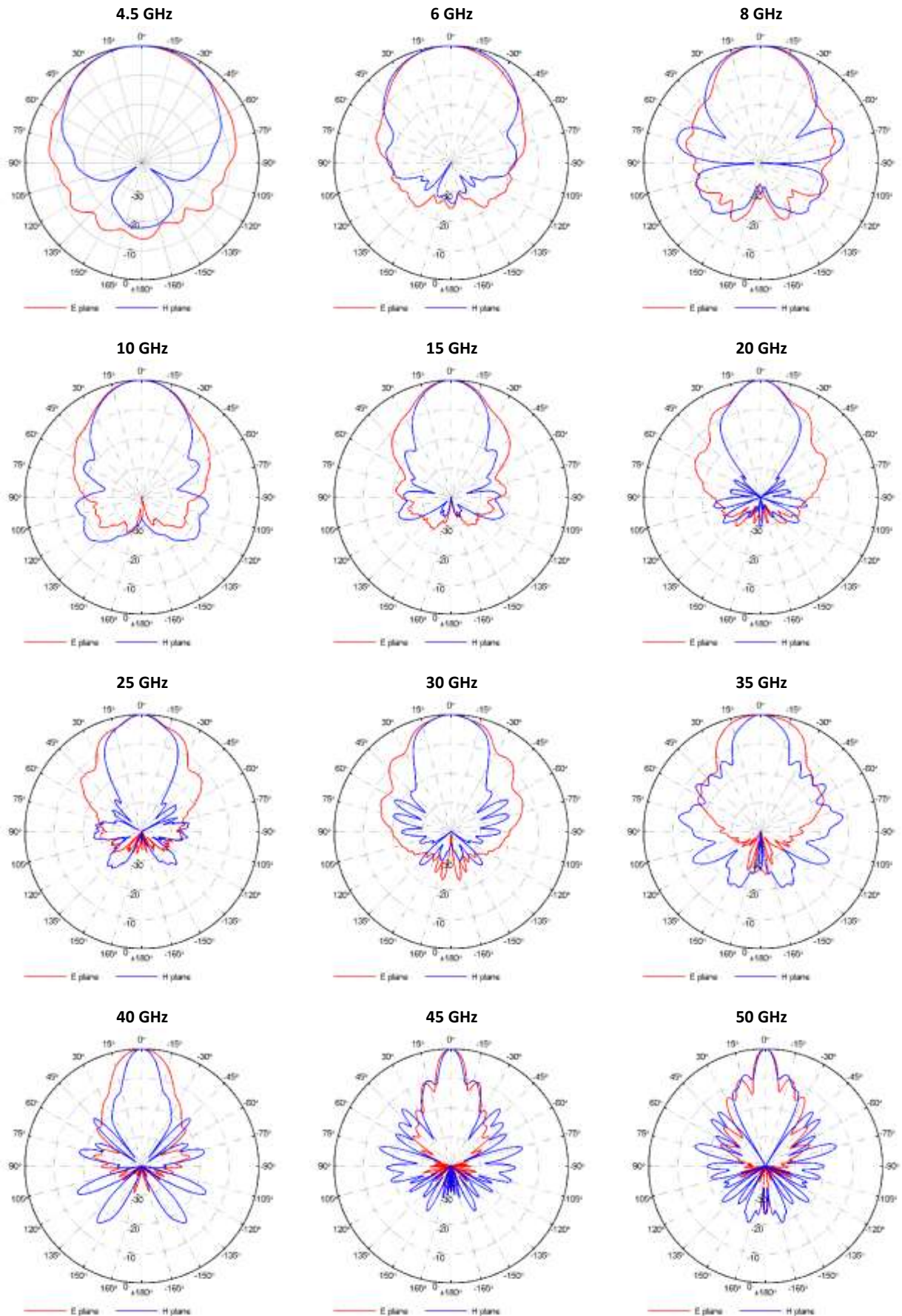
Antenna Factor (1m)



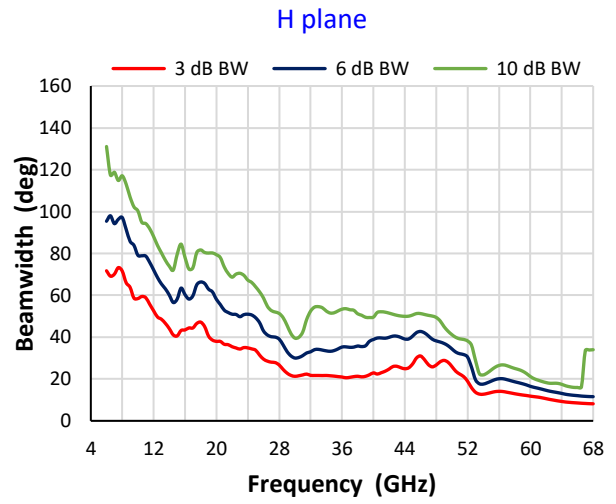
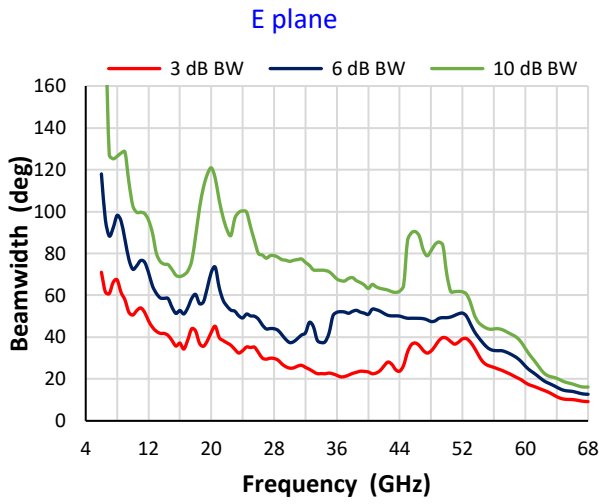
Cross Polarization



Radiation Patterns



Beamwidth



Double Ridged Horn Antenna – Model DRH50

Electrical Specifications

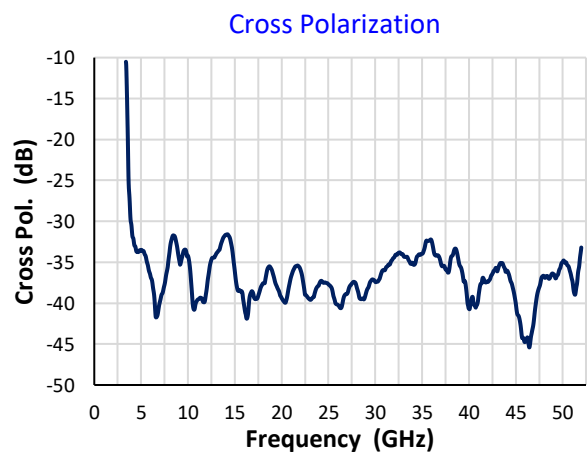
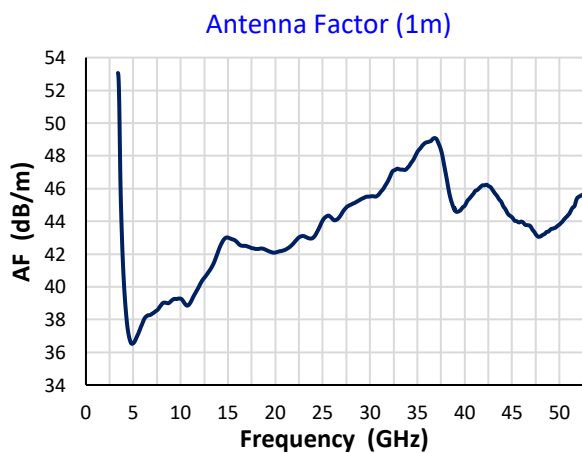
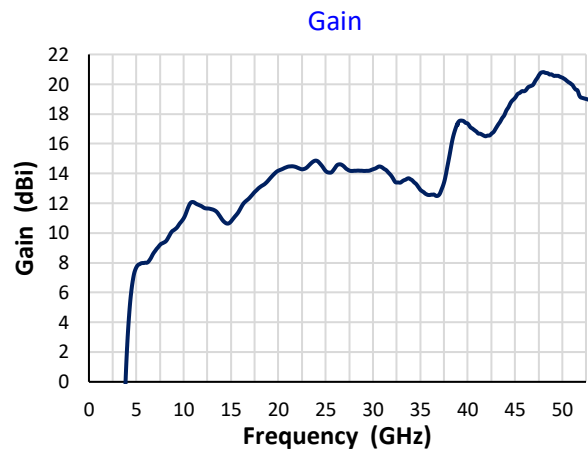
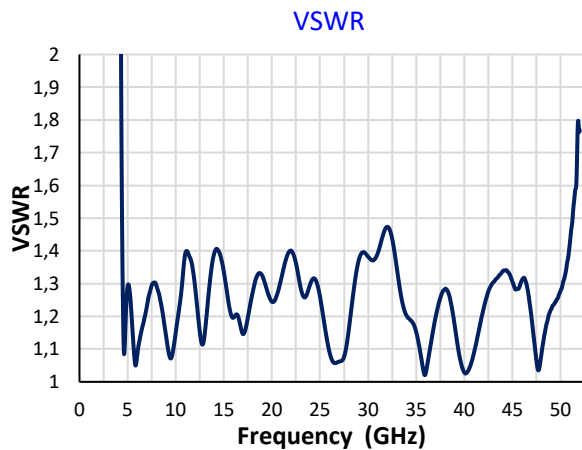
| | |
|--------------------|------------------|
| Frequency Range | 4.5 GHz – 50 GHz |
| VSWR (max.) | < 1.55:1 |
| Impedance | 50 Ω |
| Connector | 2.40mm female |
| Power (CW / Pulse) | 10 W / 20 W |

Physical Specifications

| | |
|--------|--------------------|
| Width | 43.8 mm (1.724 in) |
| Depth | 53.7 mm (2.114 in) |
| Height | 38.0 mm (1.496 in) |
| Weight | 70 g (0.16 lb) |

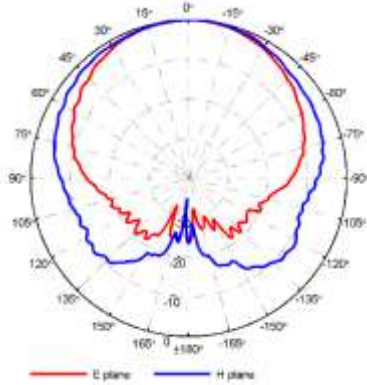


Typical Parameters

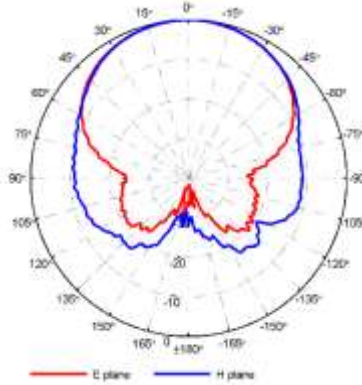


Radiation Patterns

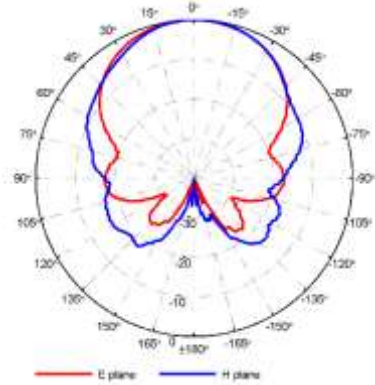
4.5 GHz



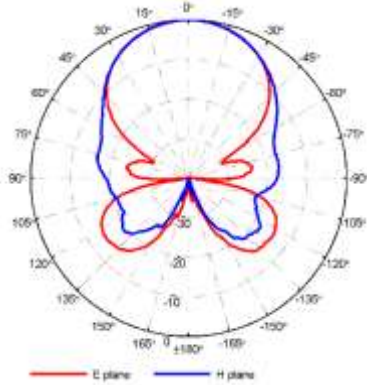
6 GHz



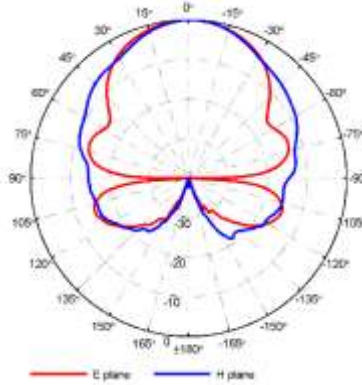
8 GHz



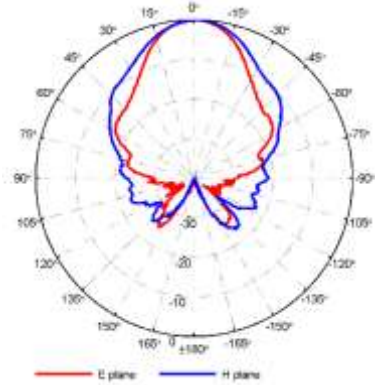
10 GHz



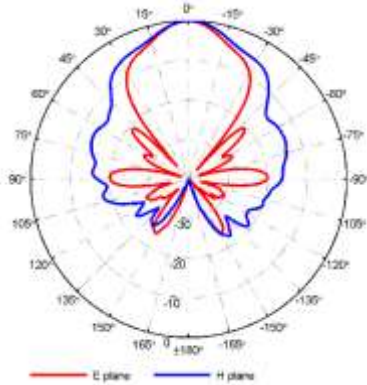
15 GHz



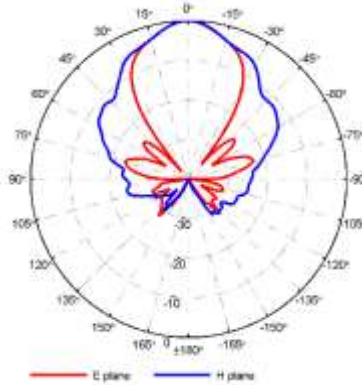
20 GHz



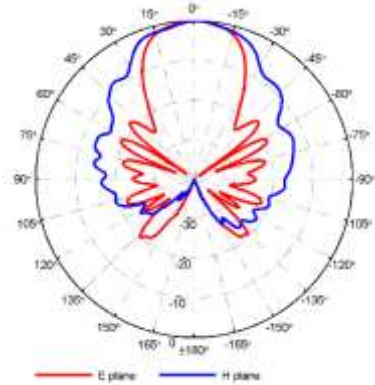
25 GHz



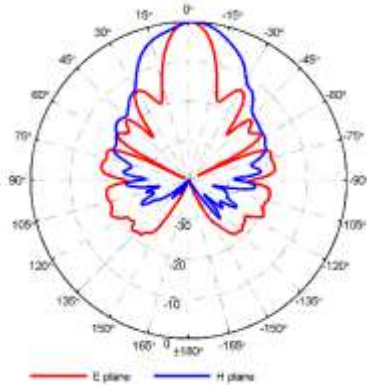
30 GHz



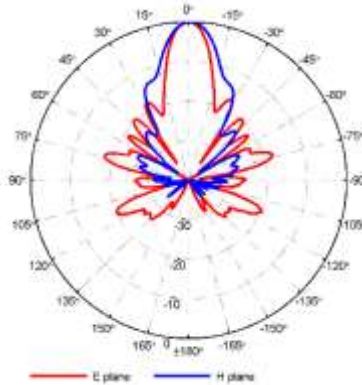
35 GHz



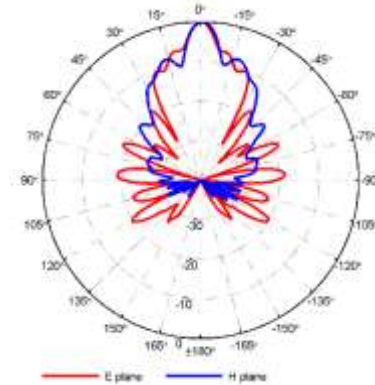
40 GHz



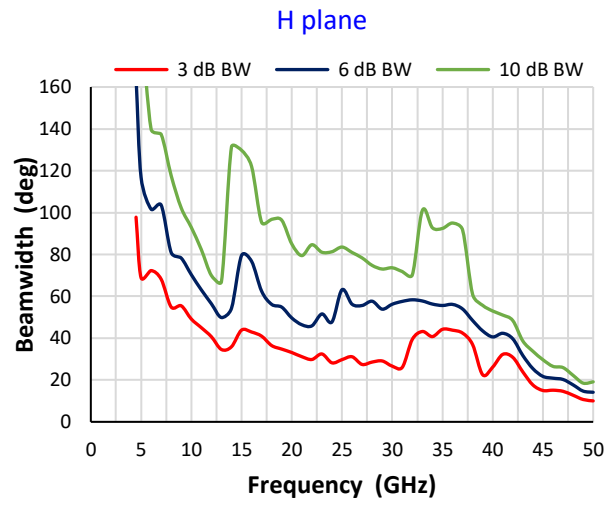
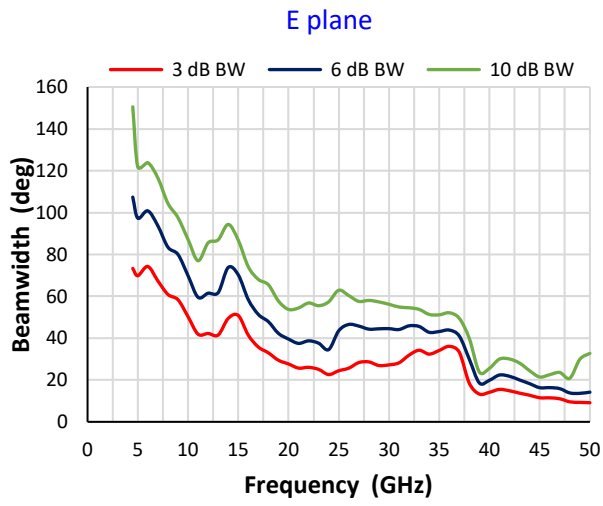
45 GHz



50 GHz



Beamwidth



Double Ridged Horn Antenna – Model DRH40

Electrical Specifications

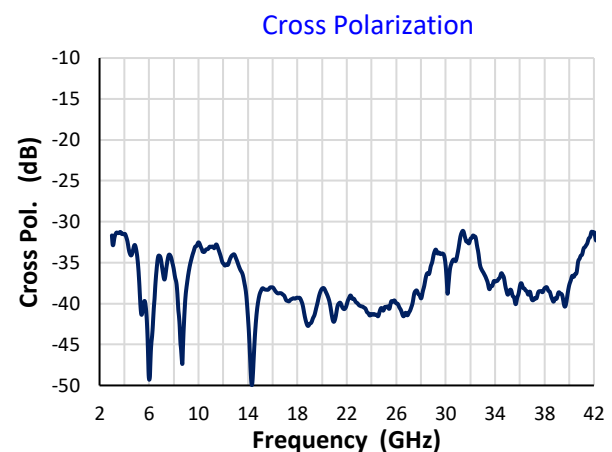
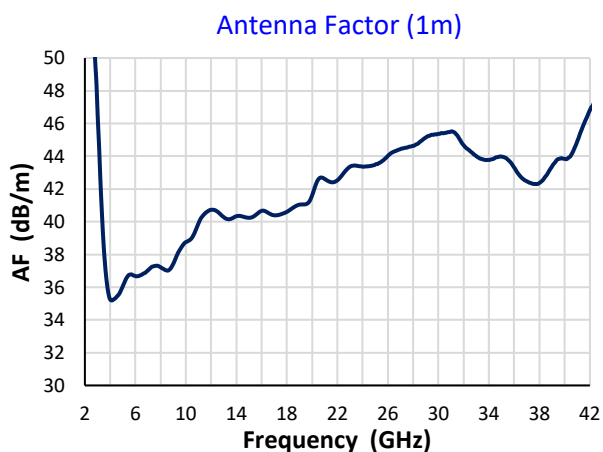
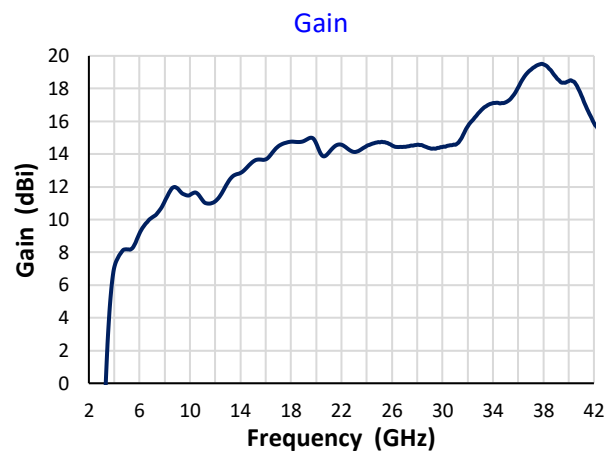
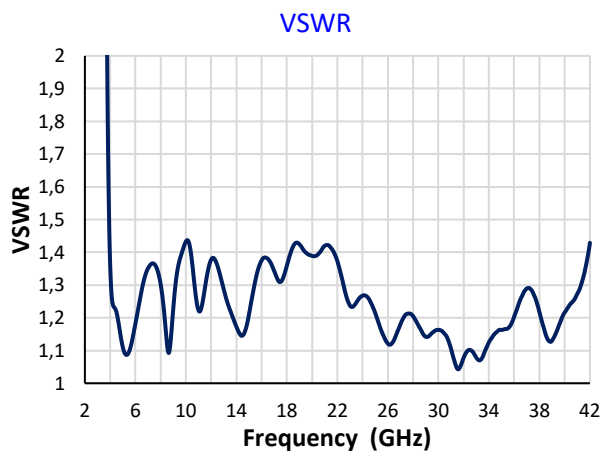
| | |
|--------------------|----------------|
| Frequency Range | 4 GHz – 40 GHz |
| VSWR (max.) | < 1.6 |
| Impedance | 50 Ω |
| Connector | K female |
| Power (CW / Pulse) | 15 W / 30 W |

Physical Specifications

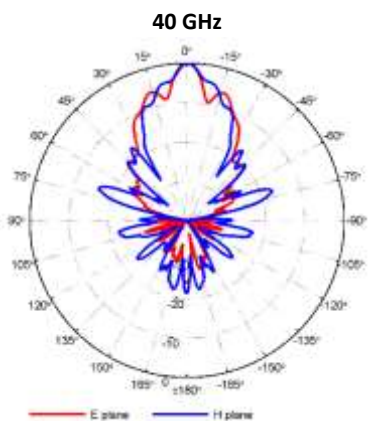
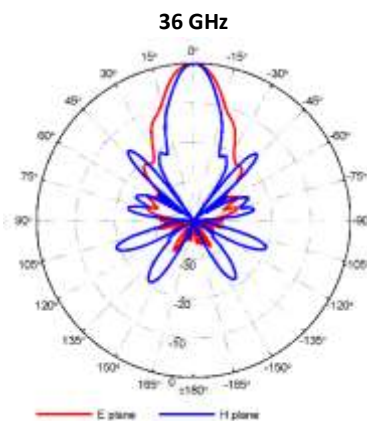
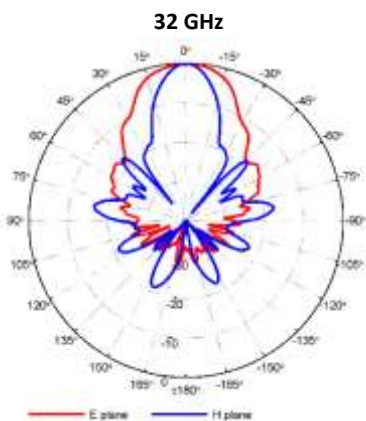
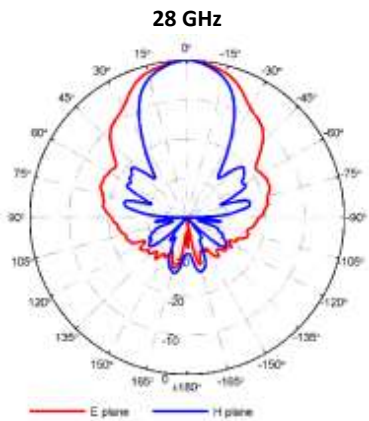
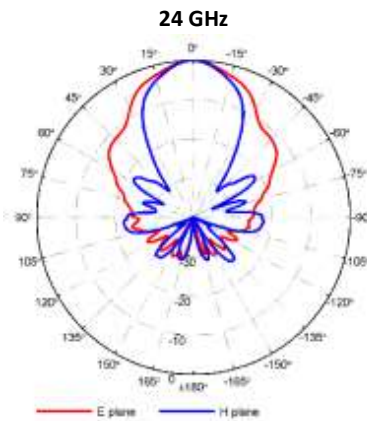
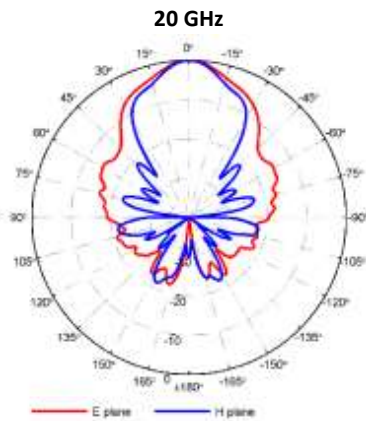
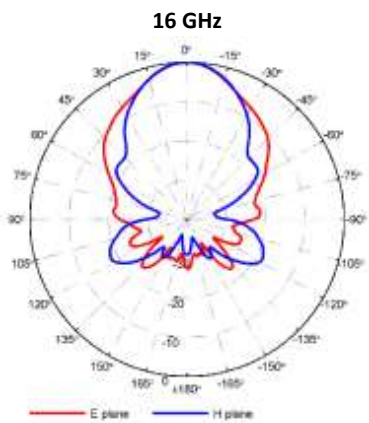
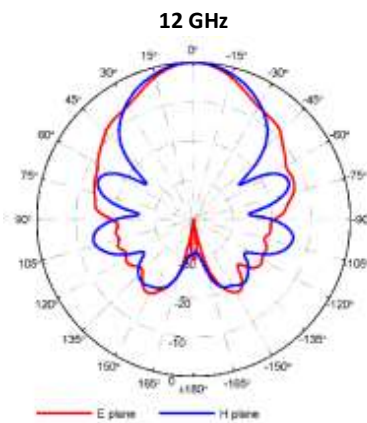
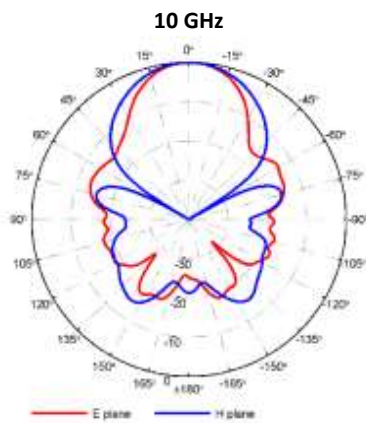
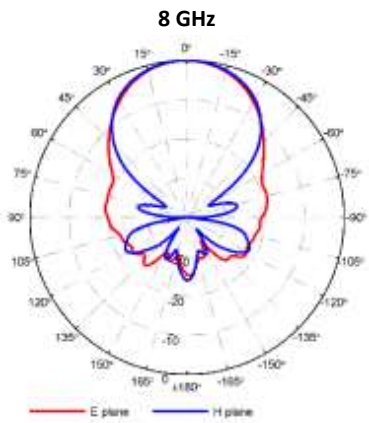
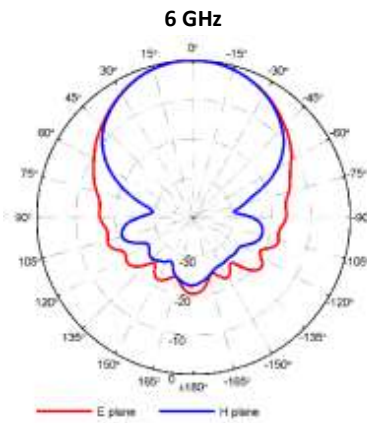
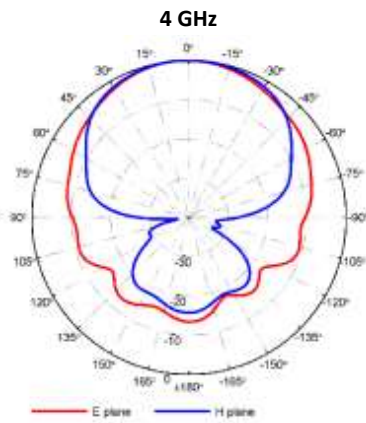
| | |
|--------|-----------------|
| Width | 52 mm (2.05 in) |
| Depth | 64 mm (2.52 in) |
| Height | 44 mm (1.74 in) |
| Weight | 75 g (0.16 lb.) |



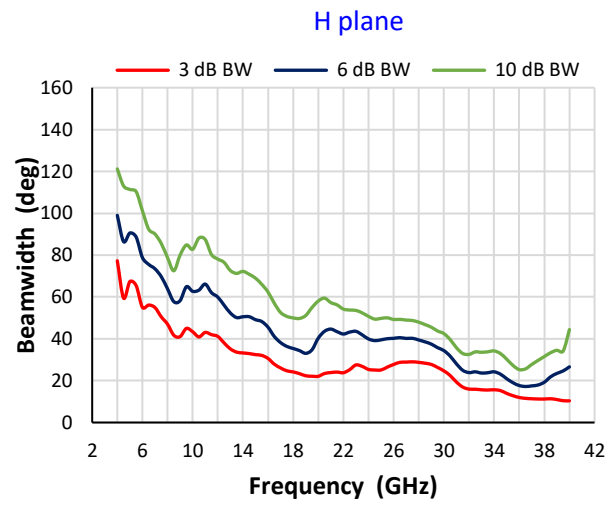
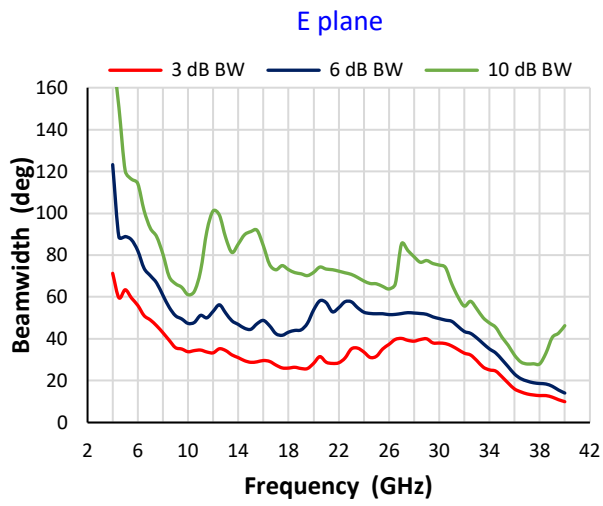
Typical Parameters



Radiation Patterns



Beamwidth



Double Ridged Horn Antenna – Model DRH30

Electrical Specifications

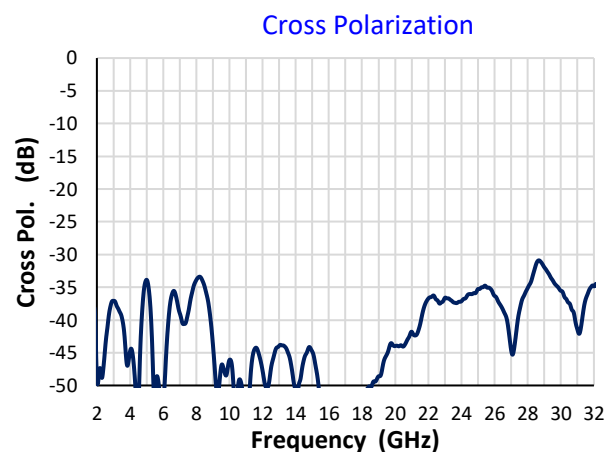
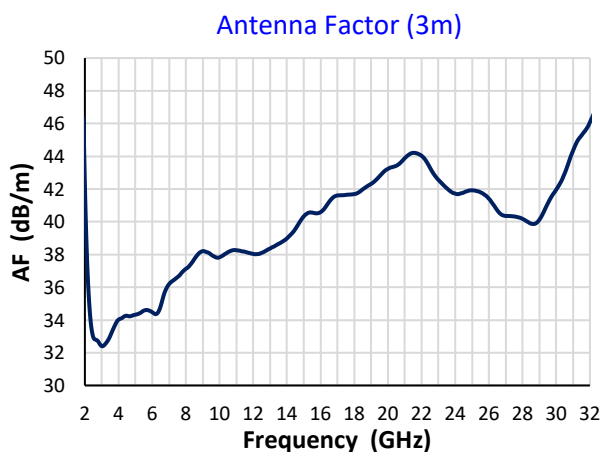
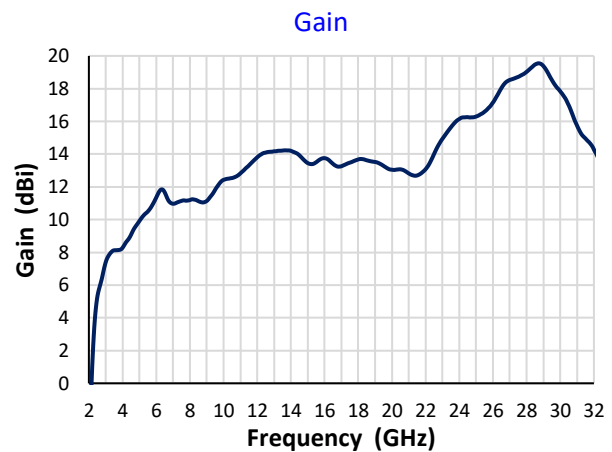
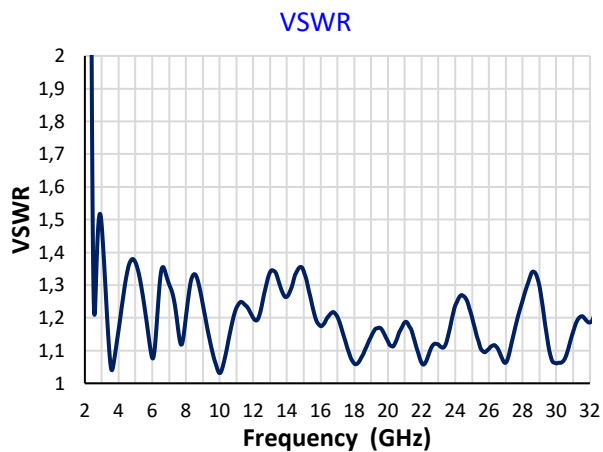
| | |
|--------------------|------------------|
| Frequency Range | 2.5 GHz – 30 GHz |
| VSWR (max.) | < 1.55 |
| Impedance | 50 Ω |
| Connector | K female |
| Power (CW / Pulse) | 25 W / 50 W |

Physical Specifications

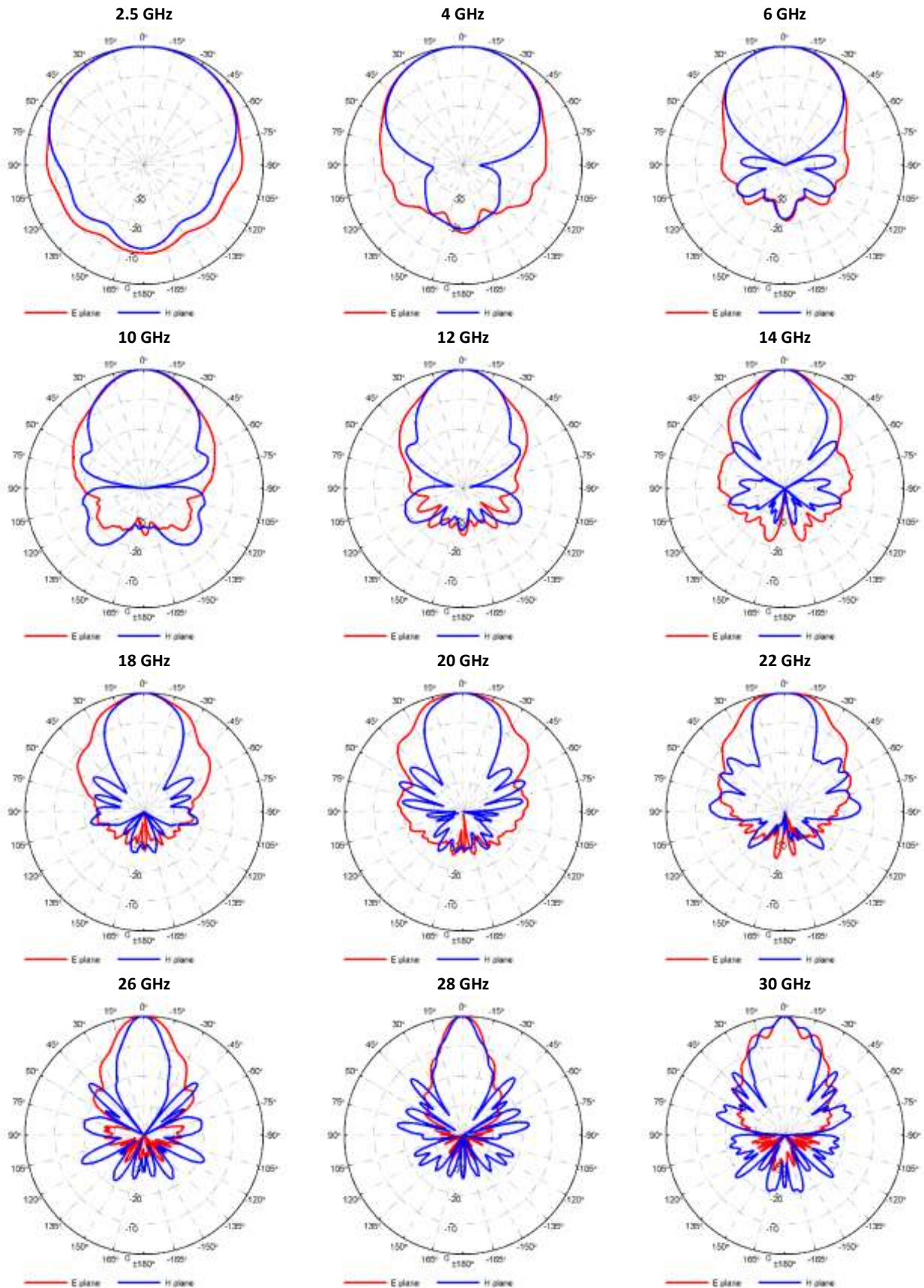
| | |
|--------|--------------------|
| Width | 70.3 mm (2.768 in) |
| Depth | 57.2 mm (2.252 in) |
| Height | 83.7 mm (3.295 in) |
| Weight | 138 g (4.868 oz) |



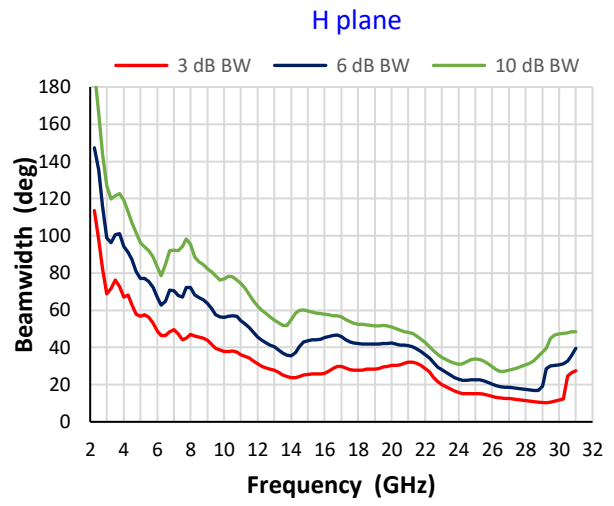
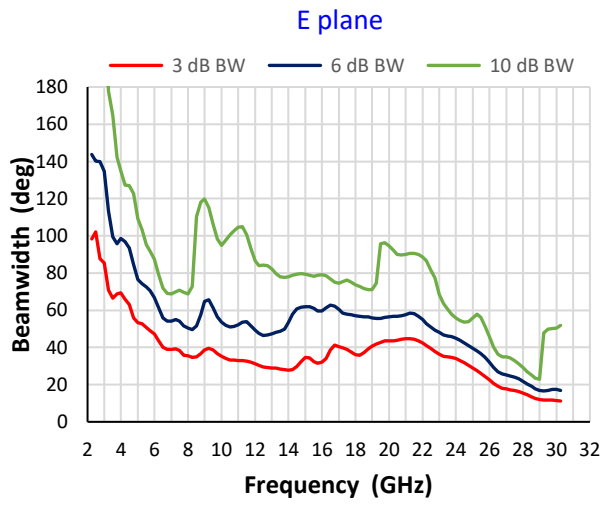
Typical Parameters



Radiation Patterns



Beamwidth



Double Ridged Horn Antenna – Model DRH20E

Electrical Specifications

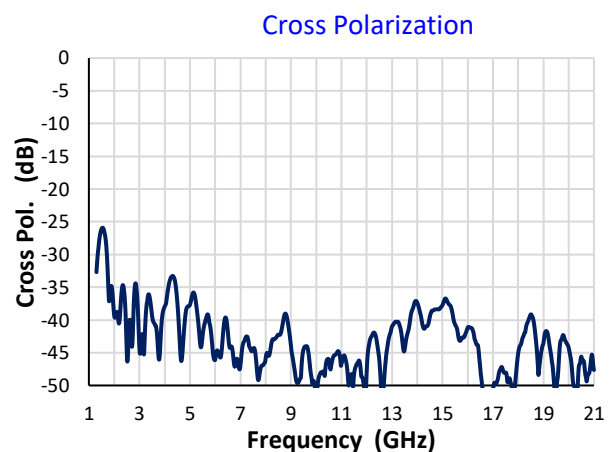
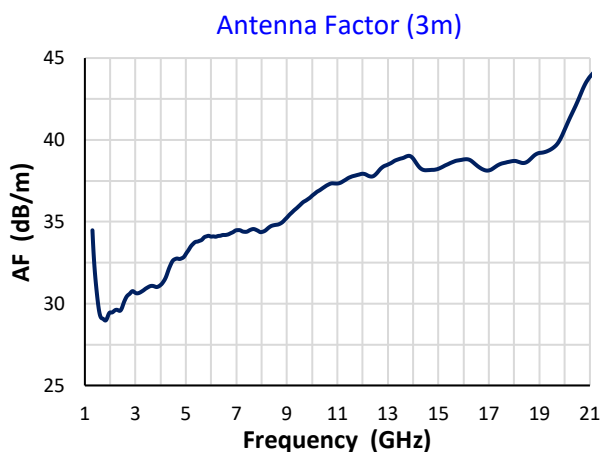
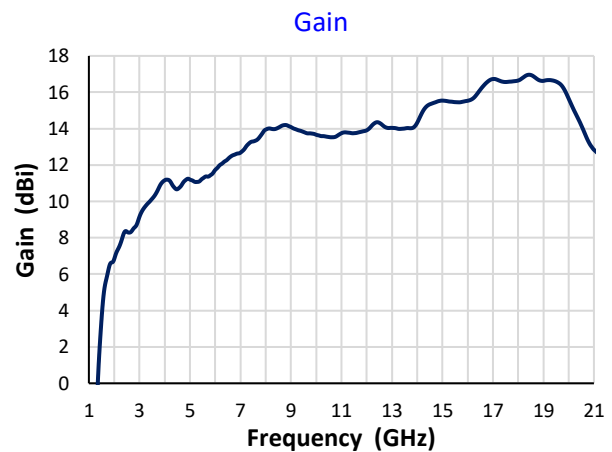
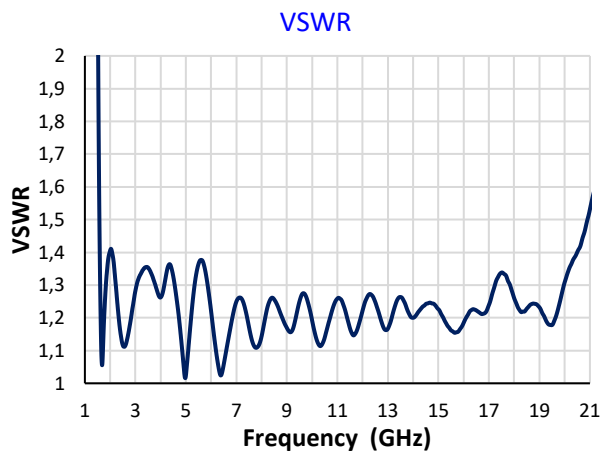
| | |
|--------------------|------------------|
| Frequency Range | 1.6 GHz – 20 GHz |
| VSWR (max.) | < 1.5 |
| Impedance | 50 Ω |
| Connector | SMA female |
| Power (CW / Pulse) | 50 W / 100 W |

Physical Specifications

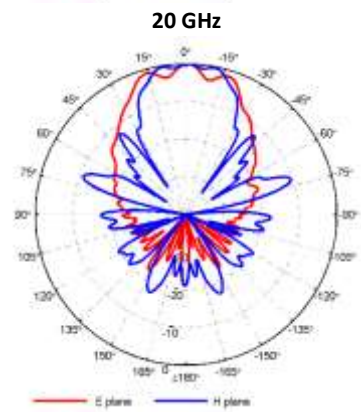
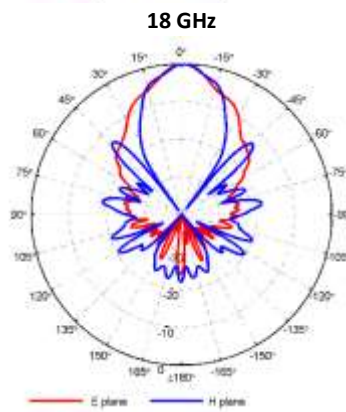
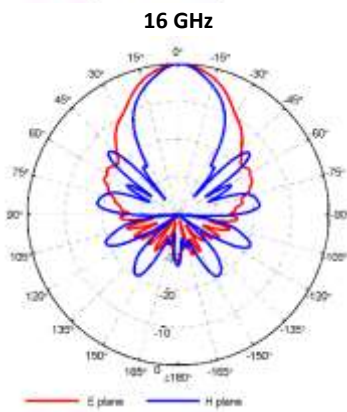
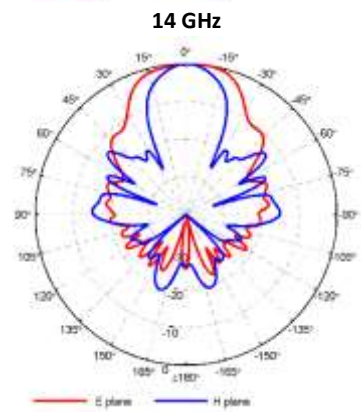
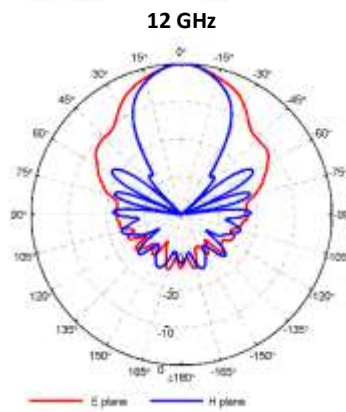
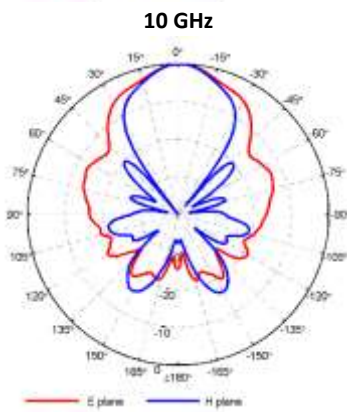
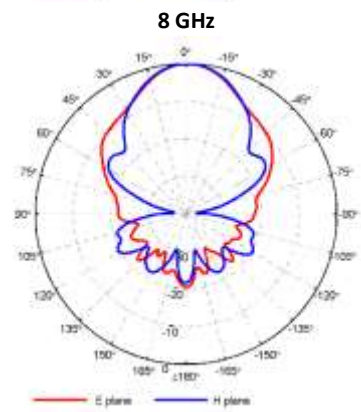
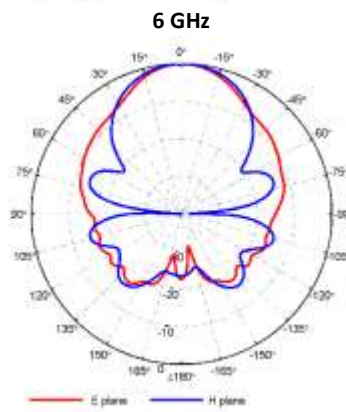
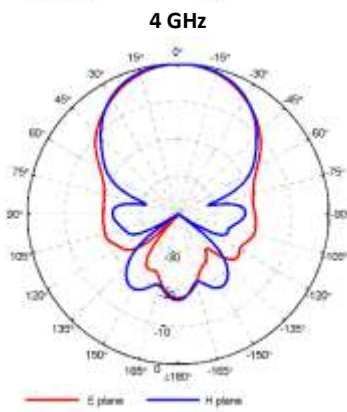
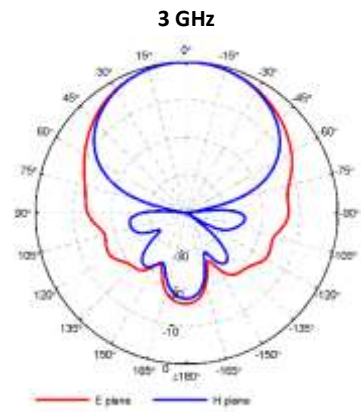
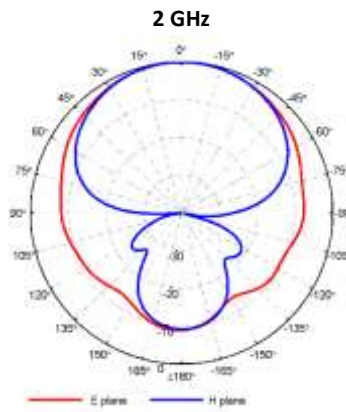
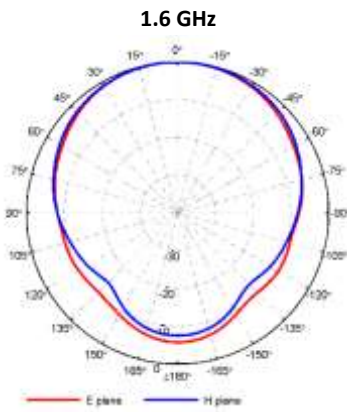
| | |
|--------|--------------------|
| Width | 104 mm (4.1 in) |
| Depth | 122.7 mm (4.8 in) |
| Height | 78.7 mm (3.1 in) |
| Weight | 0.29 kg (0.705 lb) |



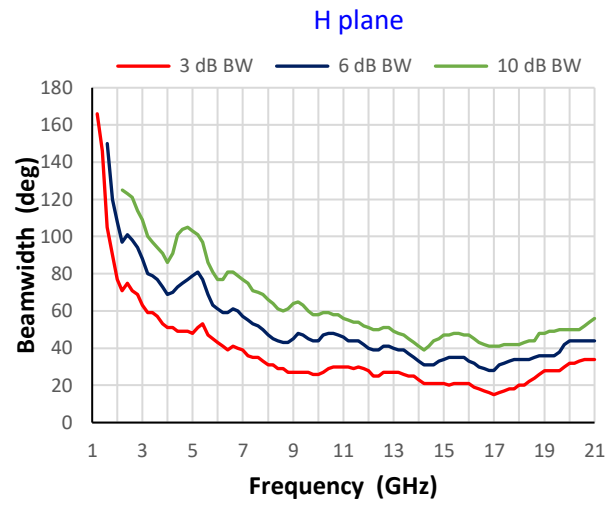
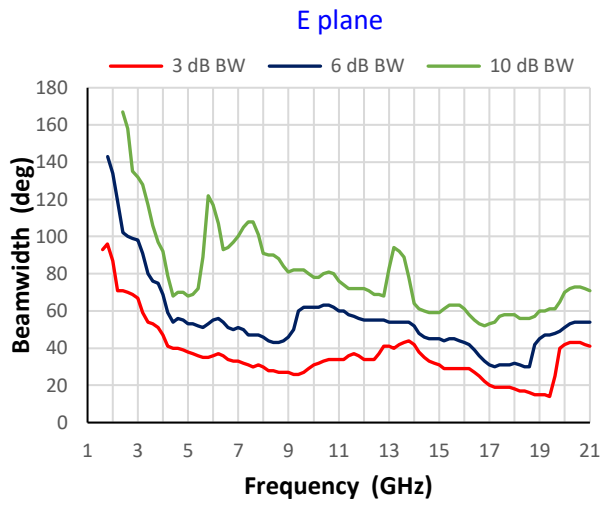
Typical Parameters



Radiation Patterns



Beamwidth



Double Ridged Horn Antenna – Model DRH18-E

Electrical Specifications

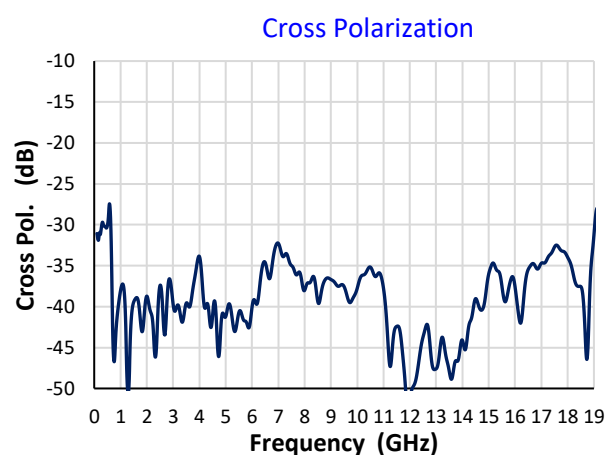
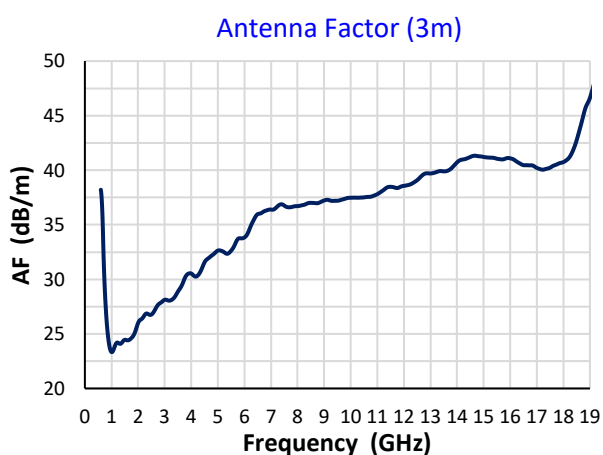
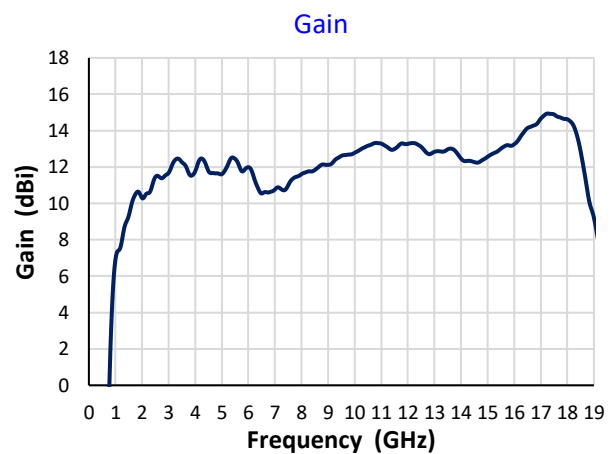
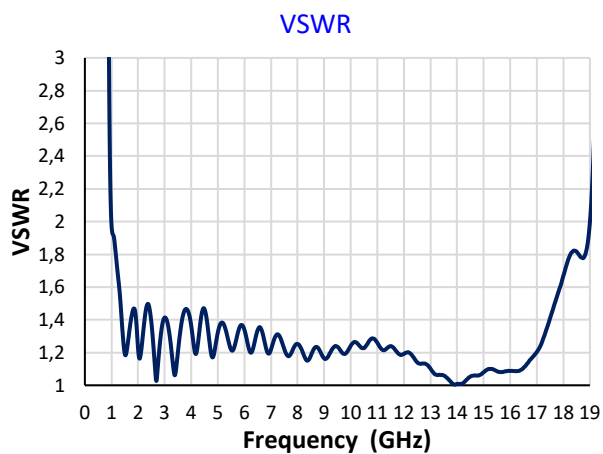
| | |
|--------------------|-----------------|
| Frequency Range | 1 GHz – 18 GHz |
| VSWR (max.) | < 2.2 |
| Impedance | 50 Ω |
| Connector | N or SMA female |
| Power (CW / Pulse) | 100 W / 170 W |

Physical Specifications

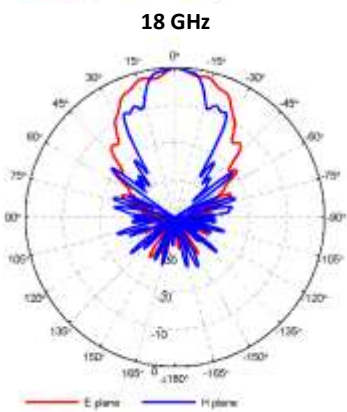
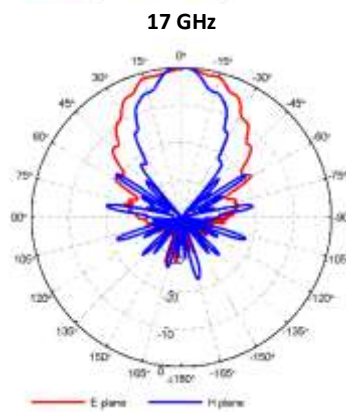
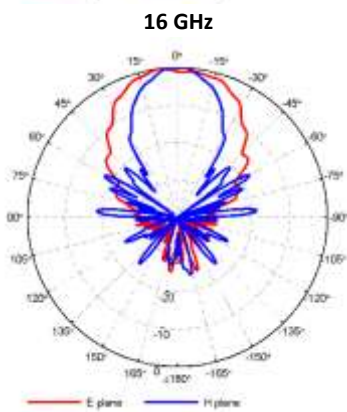
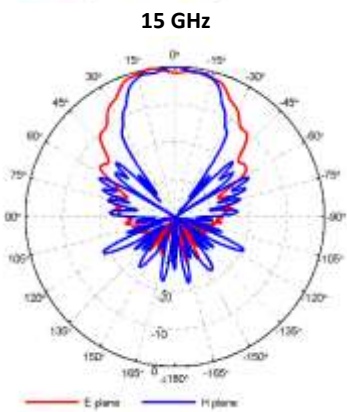
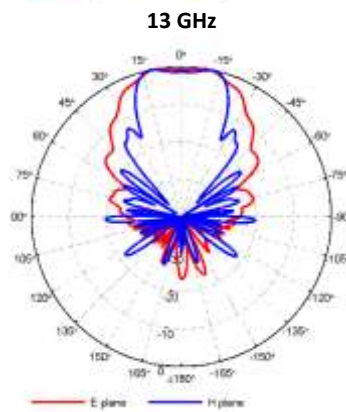
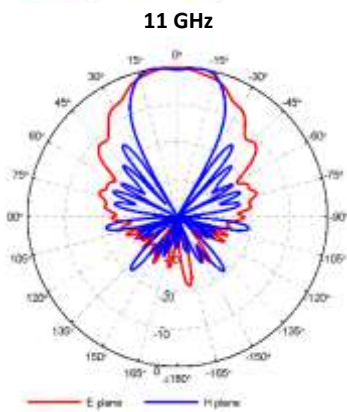
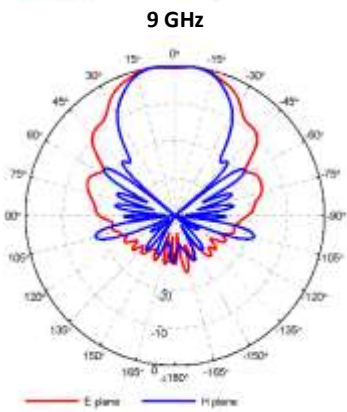
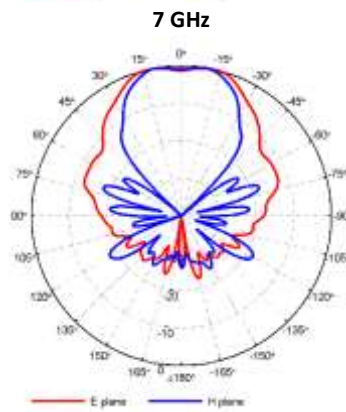
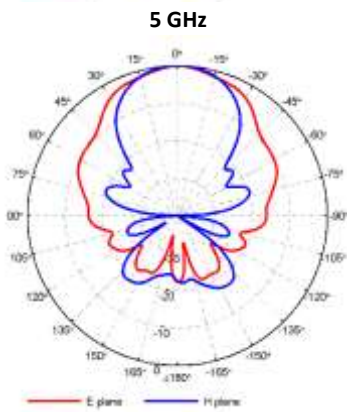
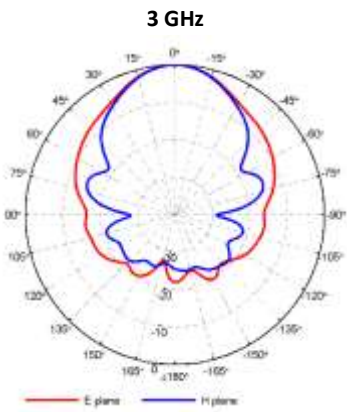
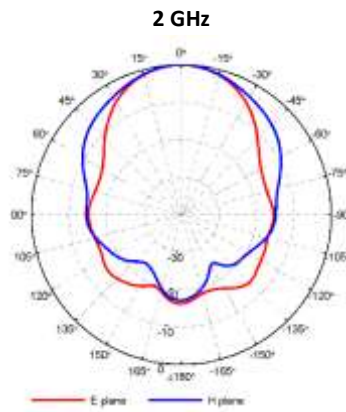
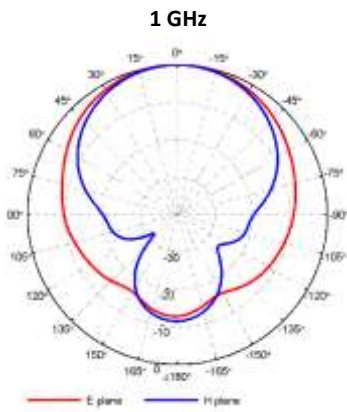
| | |
|--------|-------------------|
| Width | 243 mm (9.56 in) |
| Depth | 200 mm (7.87 in) |
| Height | 154 mm (6.06 in) |
| Weight | 0.87 kg (1.92 lb) |



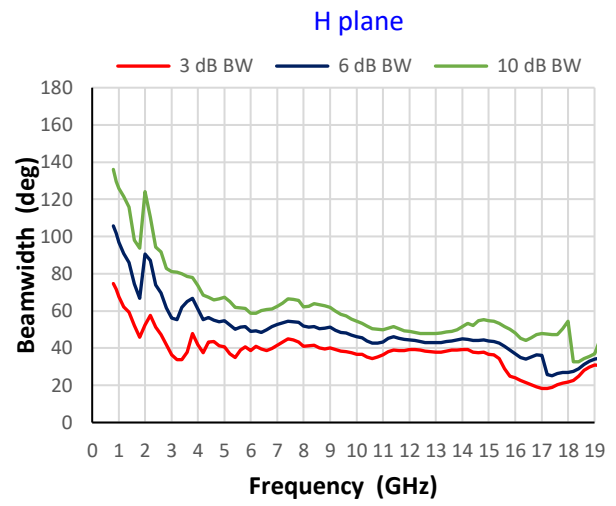
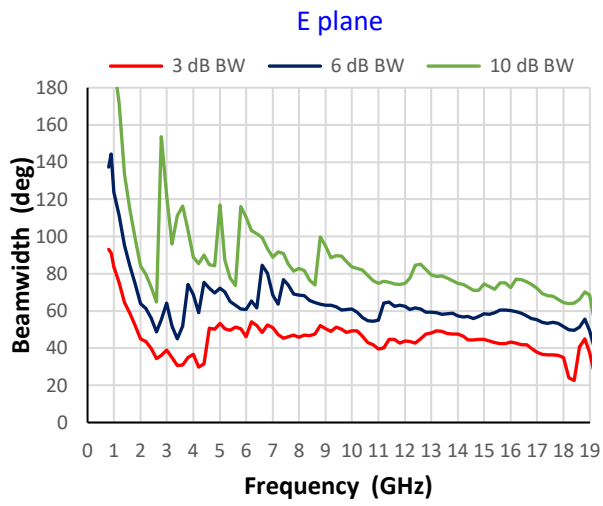
Typical Parameters



Radiation Patterns



Beamwidth



Double Ridged Horn Antenna – Model DRH18-EX

Electrical Specifications

| | |
|--------------------|------------------|
| Frequency Range | 800 MHz – 18 GHz |
| VSWR (max.) | < 2.4 |
| Impedance | 50 Ω |
| Connector | N or SMA female |
| Power (CW / Pulse) | 100 W / 170 W |

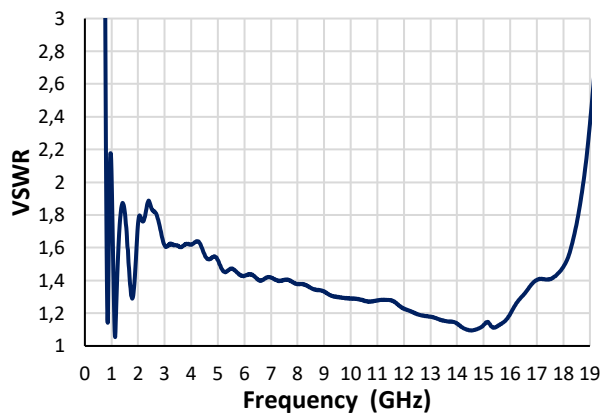
Physical Specifications

| | |
|--------|-------------------|
| Width | 186 mm (7.32 in) |
| Depth | 216 mm (8.50 in) |
| Height | 232 mm (9.13 in) |
| Weight | 0.87 kg (1.92 lb) |

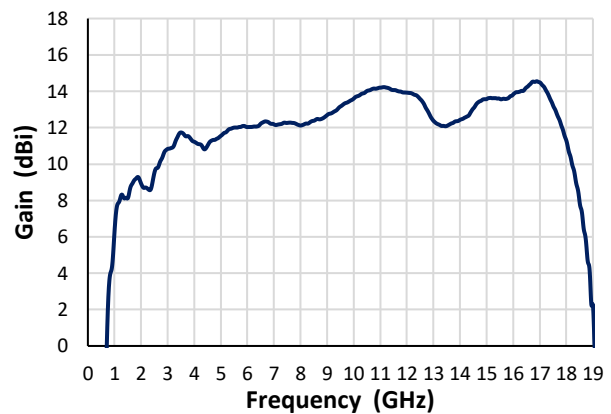


Typical Parameters

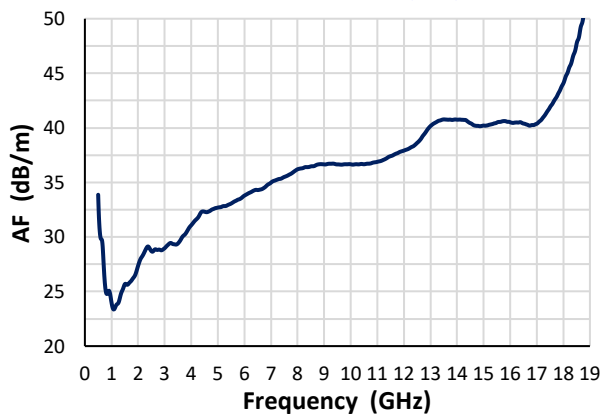
VSWR



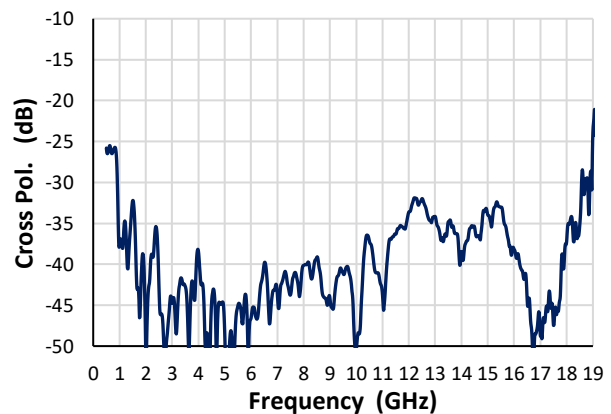
Gain



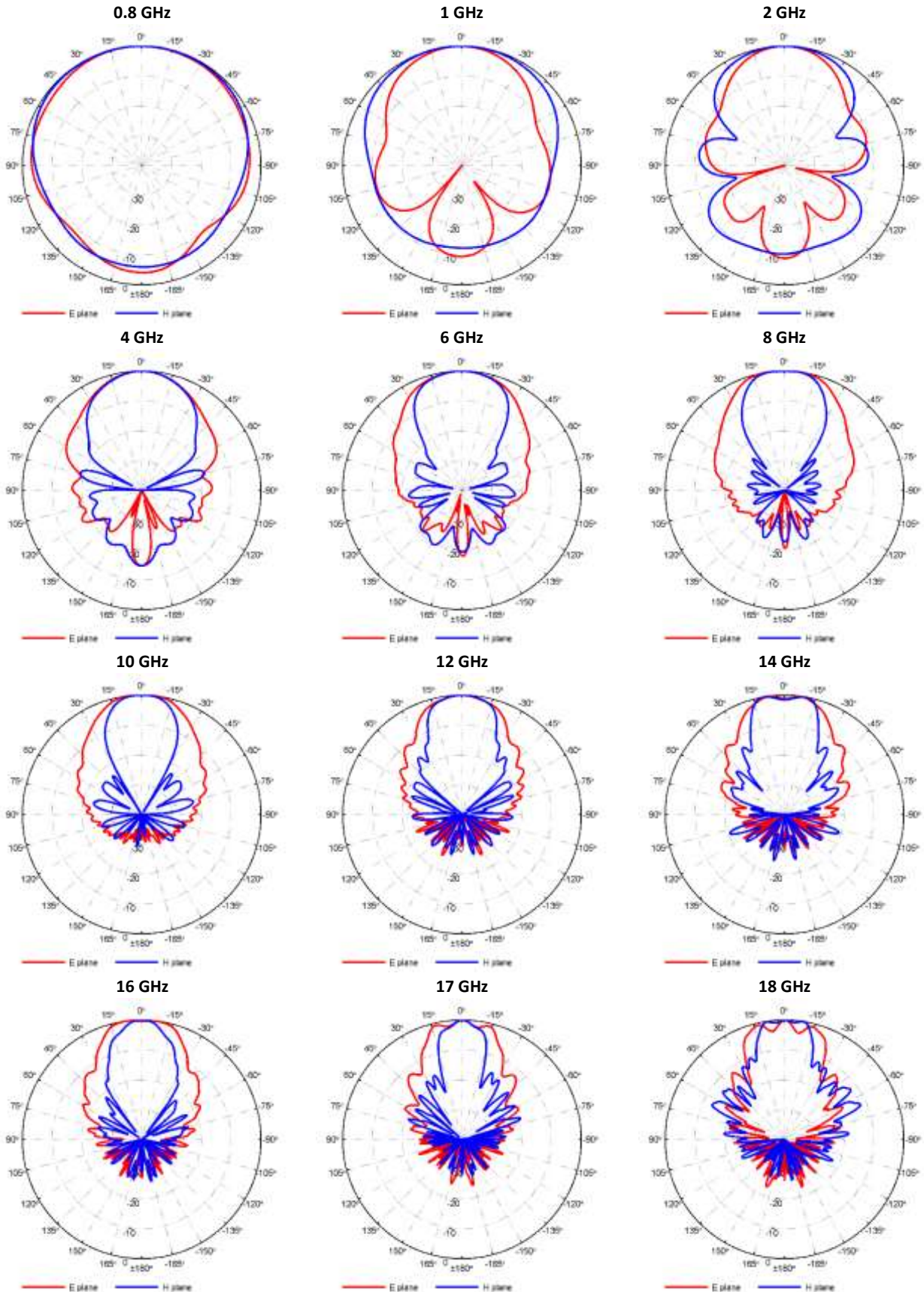
Antenna Factor (3m)



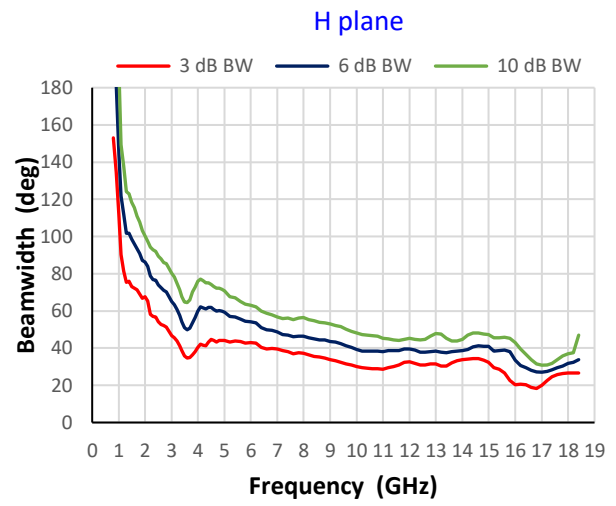
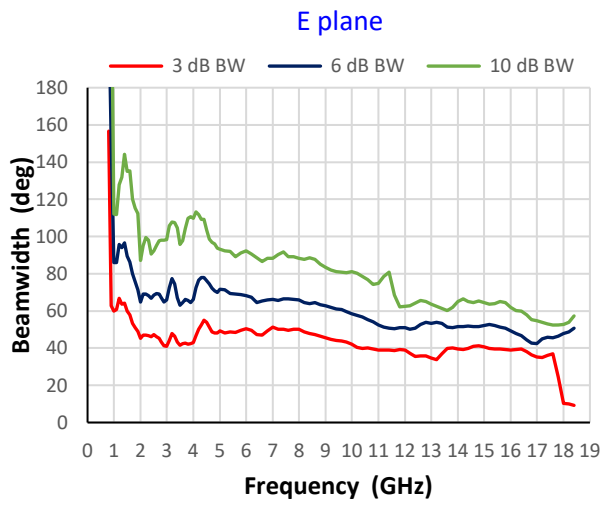
Cross Polarization



Radiation Patterns



Beamwidth



Double Ridged Horn Antenna – Model DRH10

Electrical Specifications

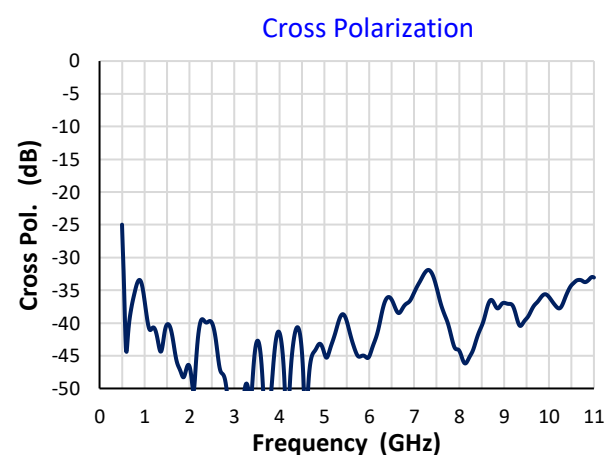
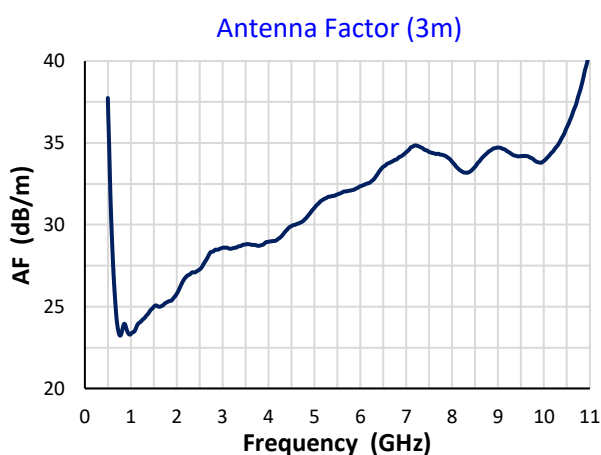
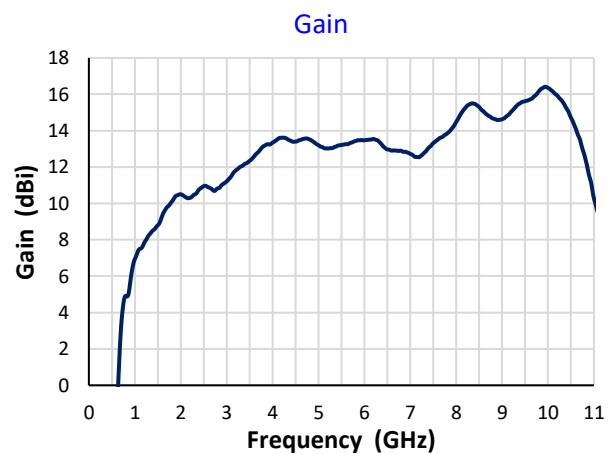
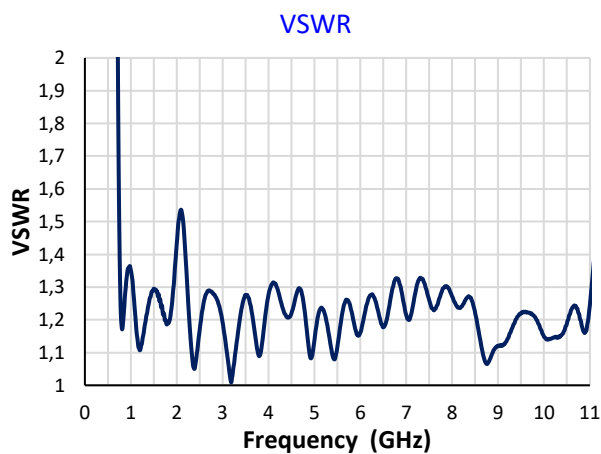
| | |
|--------------------|--------------------|
| Frequency Range | 740 MHz – 10.5 GHz |
| VSWR (max.) | < 1.8 |
| Impedance | 50 Ω |
| Connector | N female |
| Power (CW / Pulse) | 150 W / 250 W |

Physical Specifications

| | |
|--------|-------------------|
| Width | 204 mm (8.03 in) |
| Depth | 242 mm (9.53 in) |
| Height | 148 mm (5.83 in) |
| Weight | 1.24 kg (2.73 lb) |

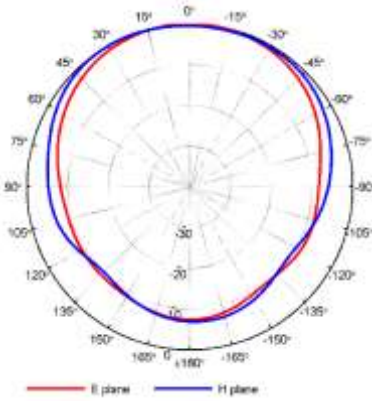


Typical Parameters

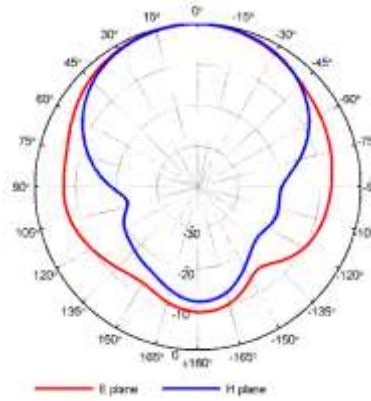


Radiation Patterns

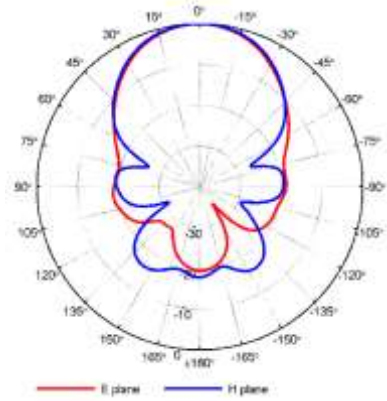
0.75 GHz



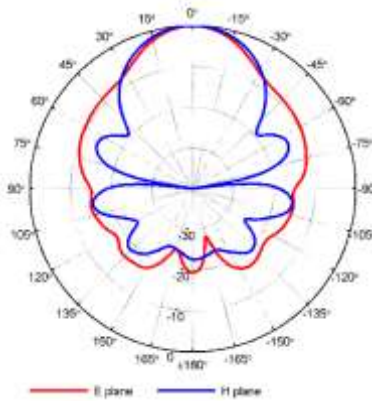
1 GHz



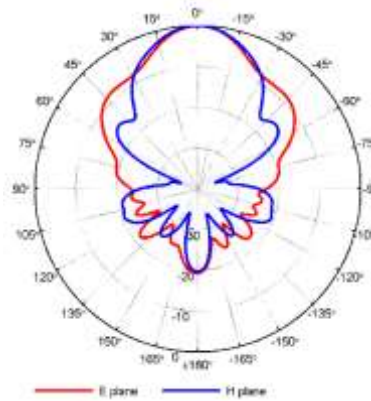
2 GHz



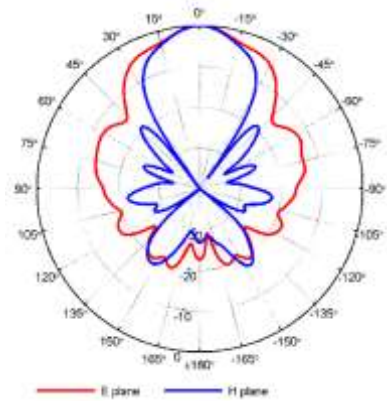
3 GHz



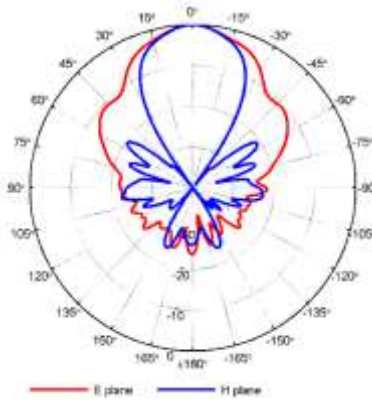
4 GHz



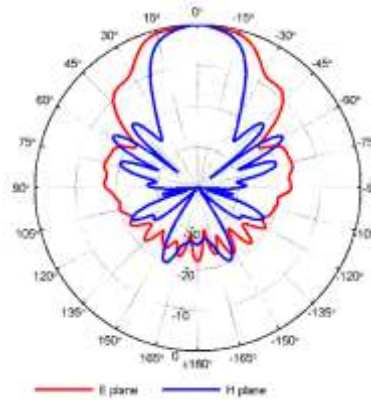
5 GHz



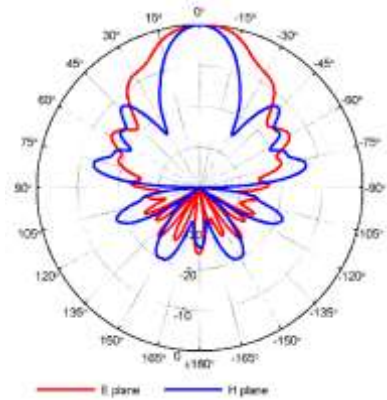
6 GHz



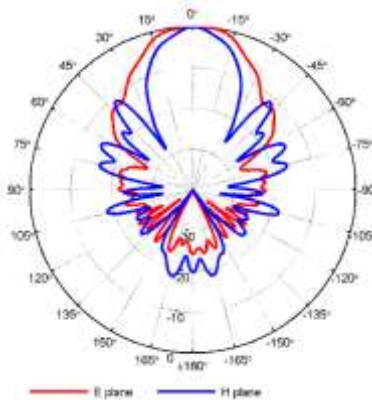
7 GHz



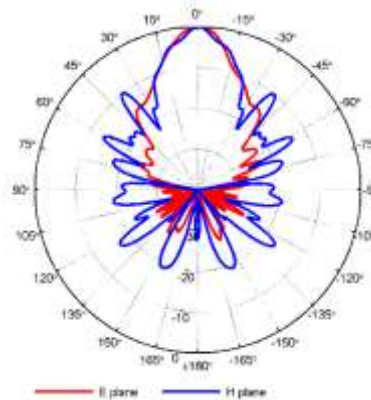
8 GHz



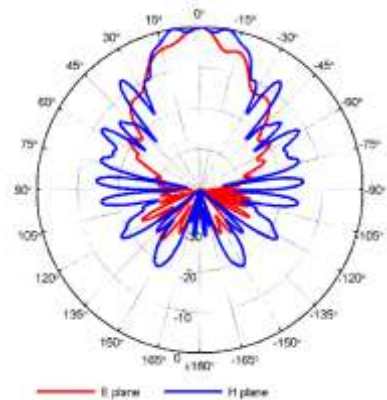
9 GHz



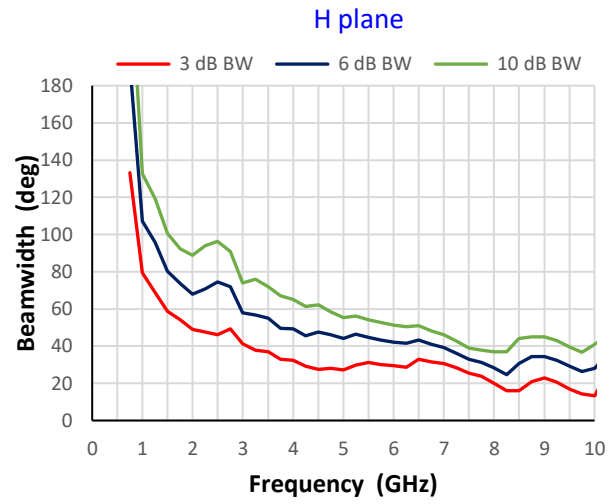
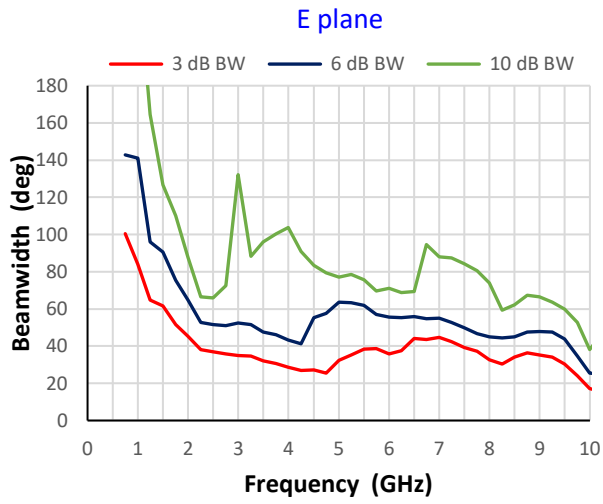
10 GHz



10.5 GHz



Beamwidth



Double Ridged Horn Antenna – Model DRH370

Electrical Specifications

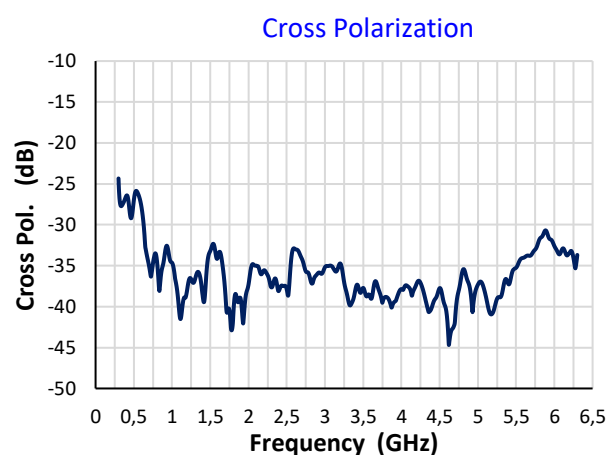
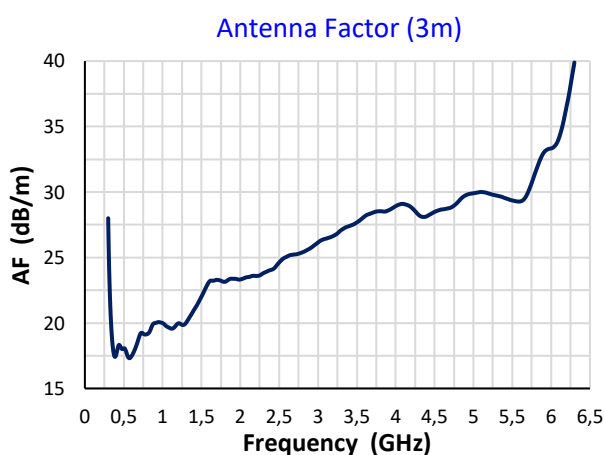
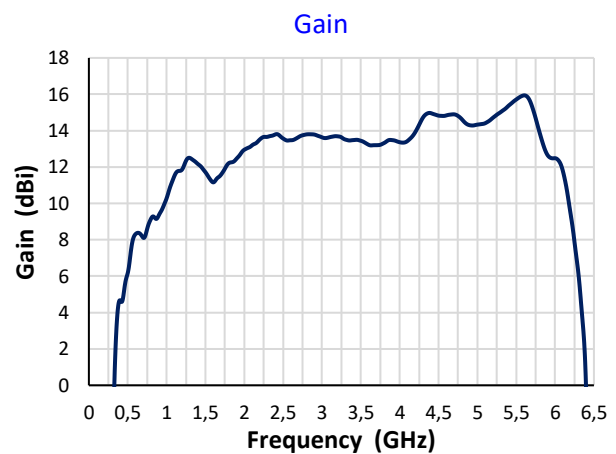
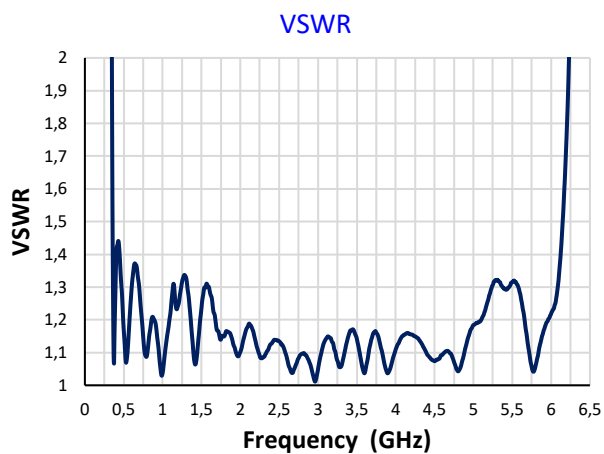
| | |
|--------------------|-----------------|
| Frequency Range | 370 MHz – 6 GHz |
| VSWR (max.) | < 1.6 |
| Impedance | 50 Ω |
| Connector | N female |
| Power (CW / Pulse) | 350 W / 500 W |

Physical Specifications

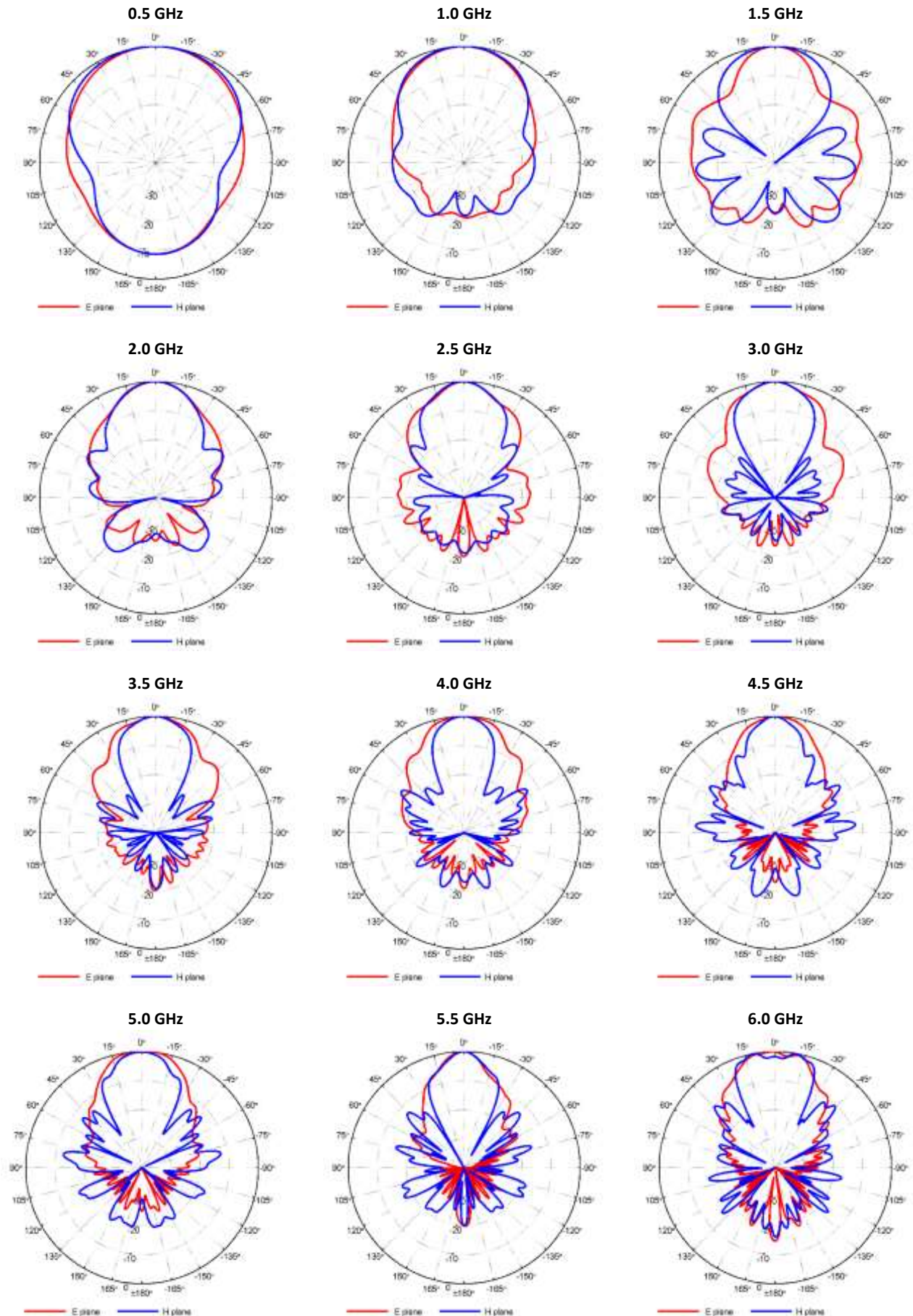
| | |
|--------|-------------------|
| Width | 370 mm (14.57 in) |
| Depth | 285 mm (11.22 in) |
| Height | 485 mm (19.09 in) |
| Weight | 3.5 kg (7.7 lb) |



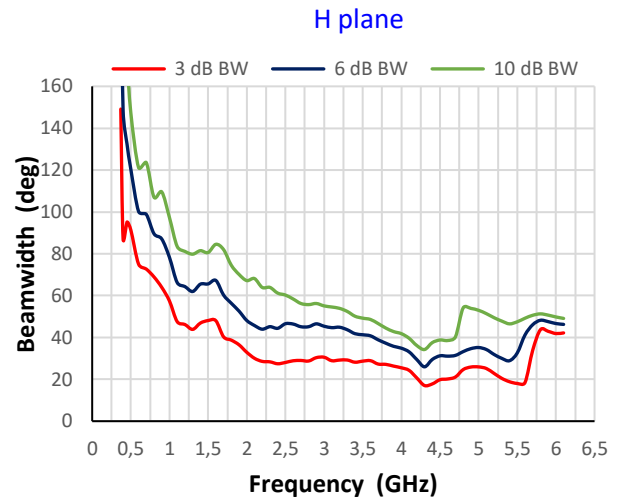
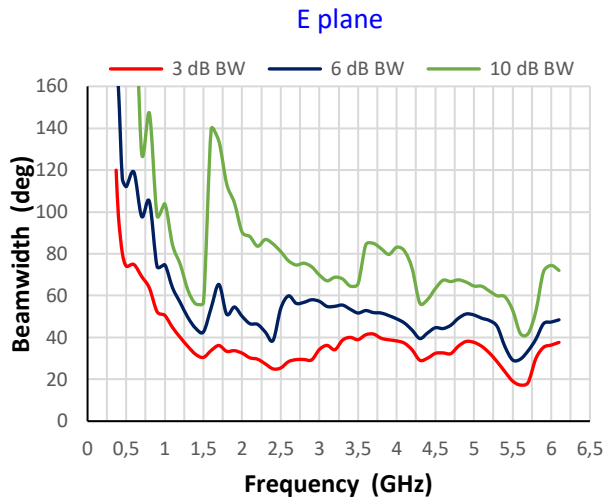
Typical Parameters



Radiation Patterns



Beamwidth



Double Ridged Horn Antenna – Model DRH203

Electrical Specifications

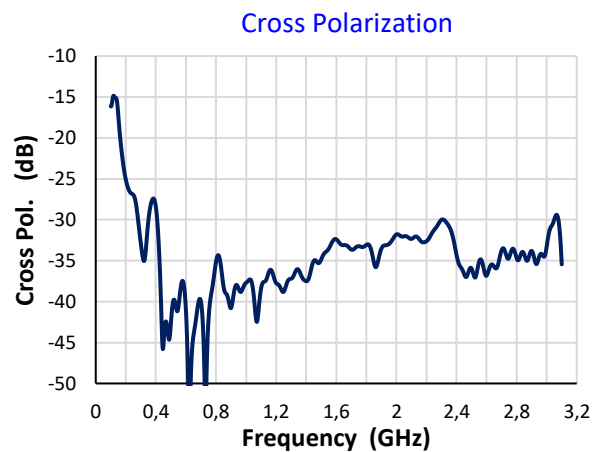
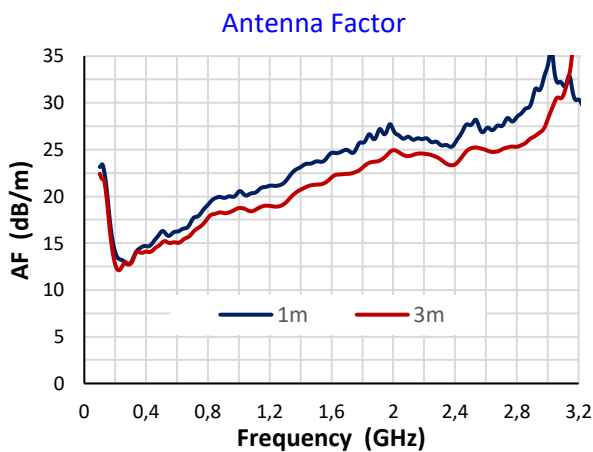
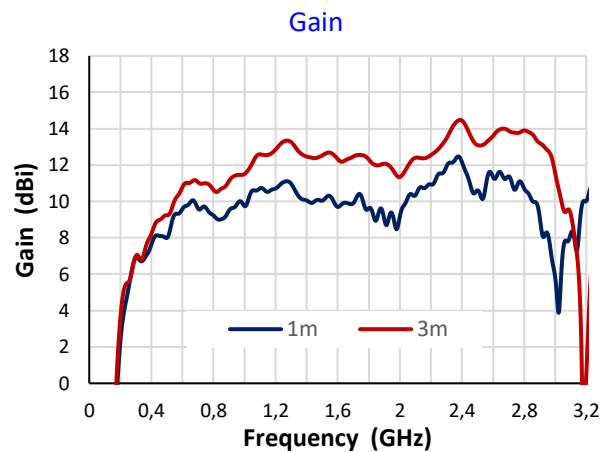
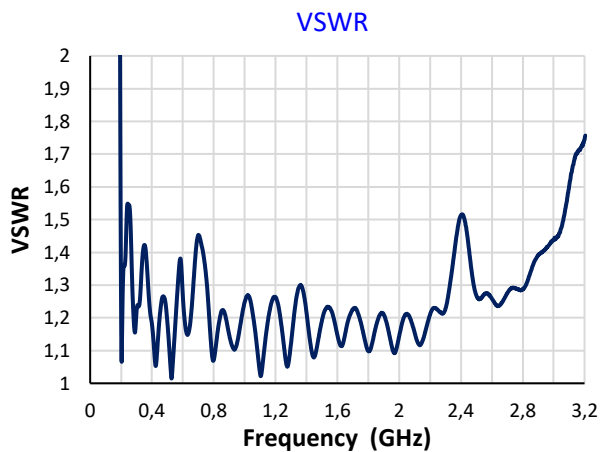
| | |
|--------------------|-----------------|
| Frequency Range | 200 MHz – 3 GHz |
| VSWR (max.) | < 1.6 |
| Impedance | 50 Ω |
| Connector | N female |
| Power (CW / Pulse) | 400 W / 750 W |

Physical Specifications

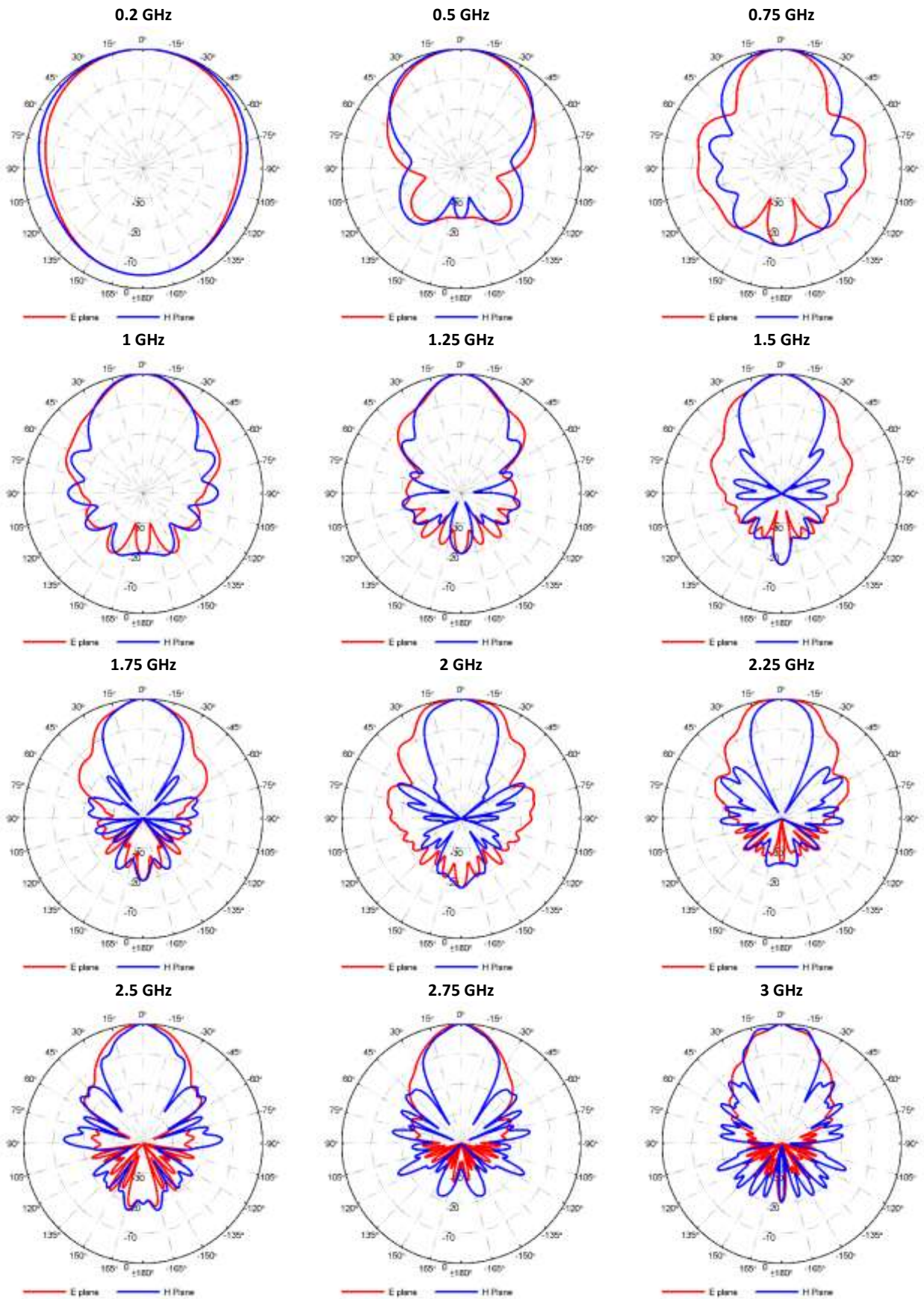
| | |
|--------|---------------------|
| Width | 710 mm (27.953 in) |
| Depth | 828 mm (32.598 in) |
| Height | 522 mm (20.551 in) |
| Weight | 14.1 kg (31.085 lb) |



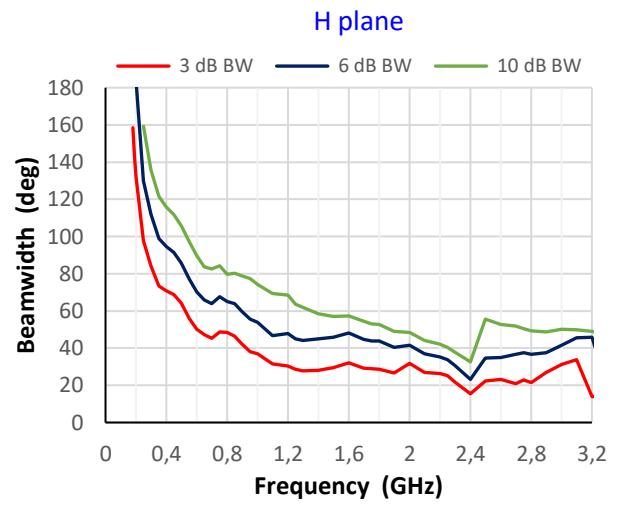
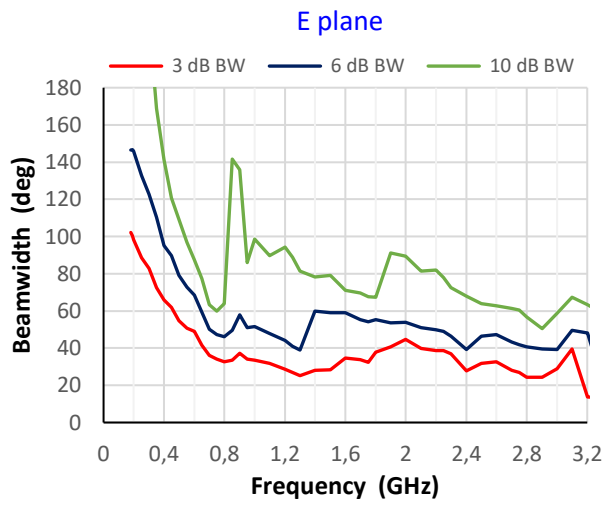
Typical Parameters



Radiation Patterns



Beamwidth



Double Ridged Horn Antenna – Model DRH200

Electrical Specifications

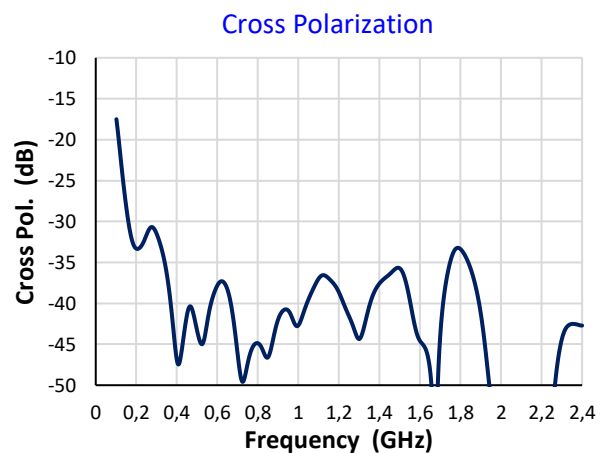
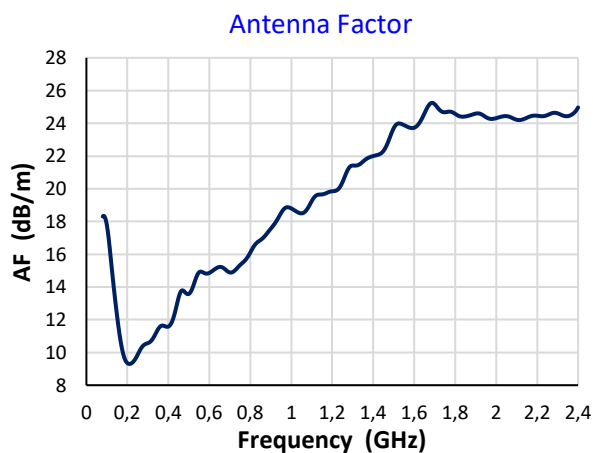
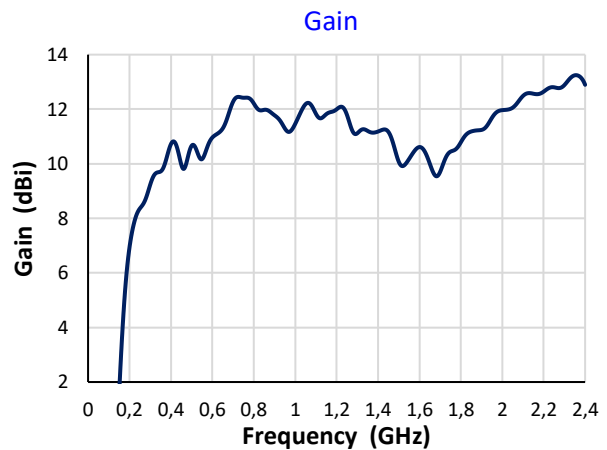
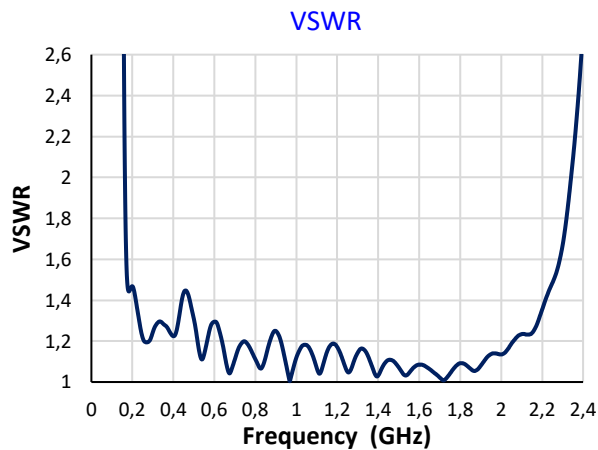
| | |
|--------------------|-------------------|
| Frequency Range | 180 MHz – 2.2 GHz |
| VSWR (max.) | < 1.6 |
| Impedance | 50 Ω |
| Connector | N female |
| Power (CW / Pulse) | 500 W / 1000 W |

Physical Specifications

| | |
|--------|-------------------|
| Width | 997 mm (39.2 in) |
| Depth | 773 mm (30.4 in) |
| Height | 998 mm (39.2 in) |
| Weight | 15.8 kg (33.2 lb) |



Typical Parameters



Double Ridged Horn Antenna – Model DRH818

Electrical Specifications

| | |
|--------------------|------------------|
| Frequency Range | 7.5 GHz – 18 GHz |
| VSWR (max.) | < 1.18 |
| Waveguide | WRD750 |
| Flange Size | FPWRD750D24 |
| Power (CW / Pulse) | 1 kW / 2.5 kW |

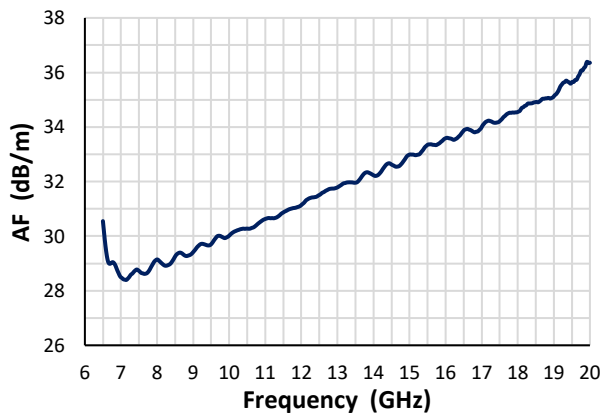
Physical Specifications

| | |
|--------|---------------------|
| Width | 179.6 mm (7.07 in) |
| Depth | 265.0 mm (10.43 in) |
| Height | 109.6 mm (4.32 in) |
| Weight | 0.855 kg (1.89 lb) |

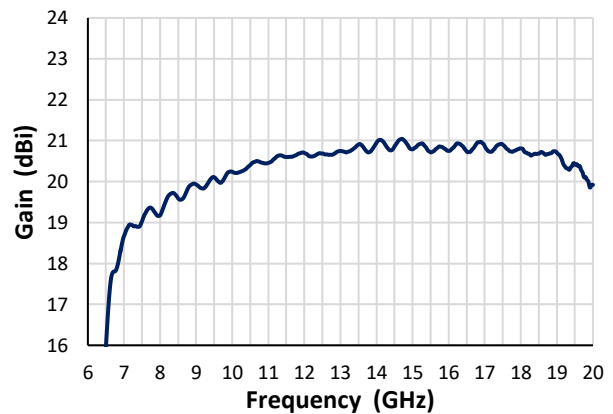


Typical Parameters

Antenna Factor (3m)

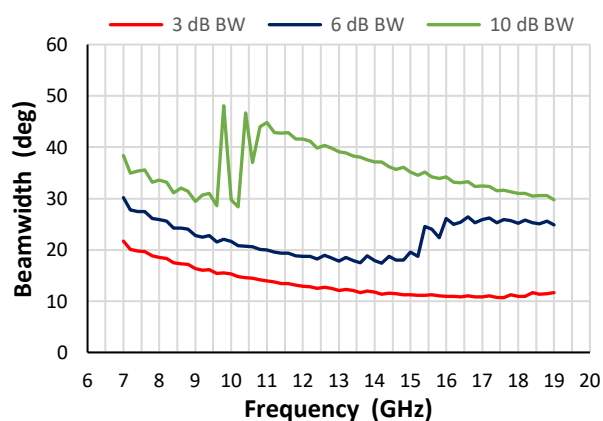


Gain

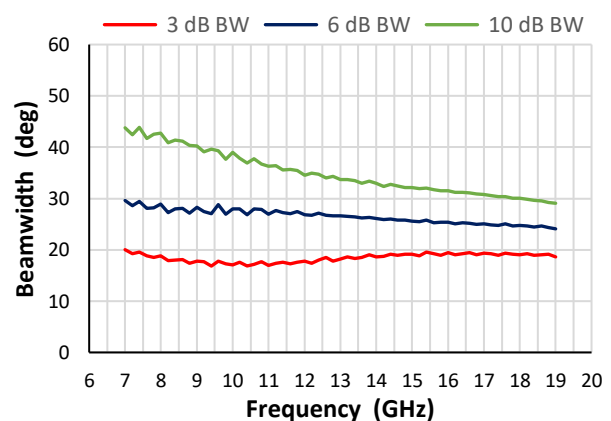


Beamwidth

E plane

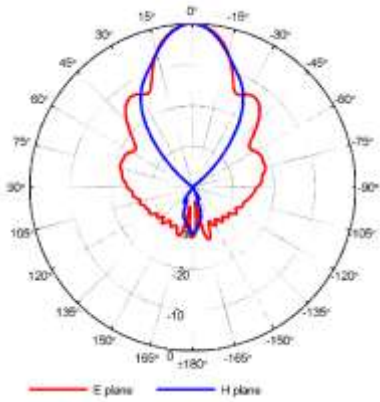


H plane

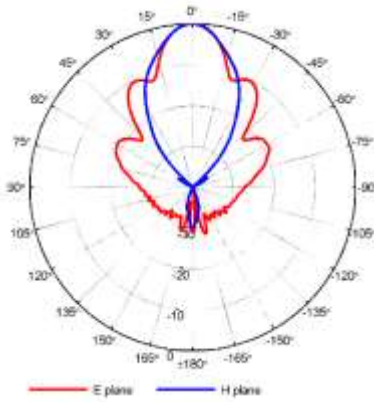


Radiation Patterns

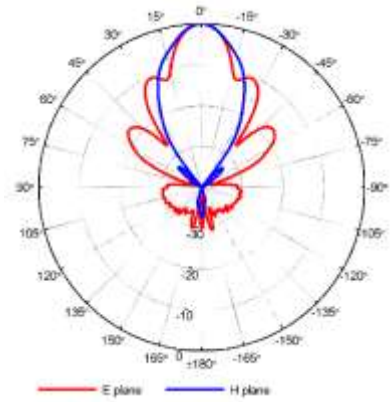
7 GHz



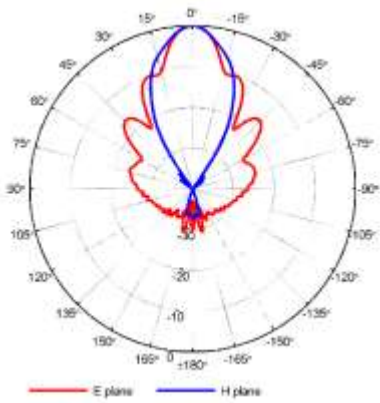
8 GHz



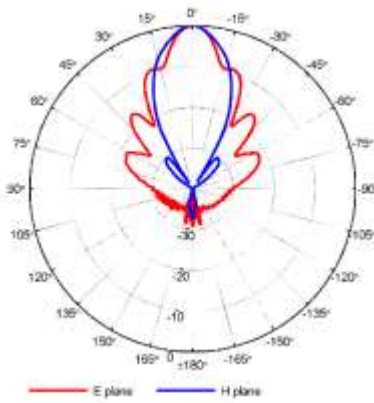
9 GHz



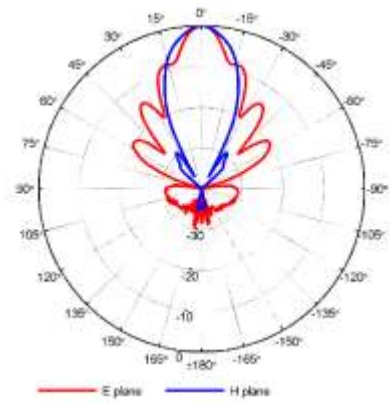
10 GHz



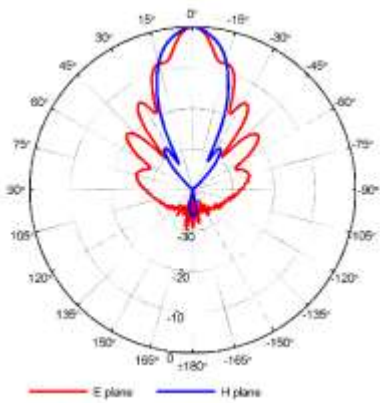
11 GHz



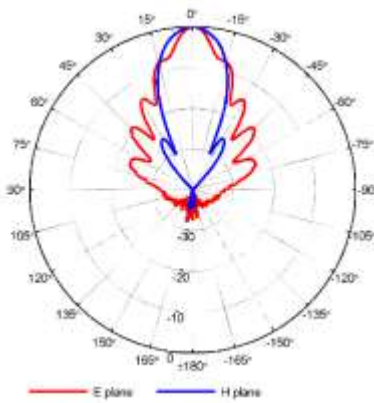
12 GHz



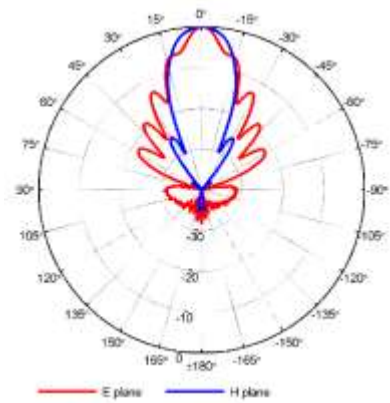
13 GHz



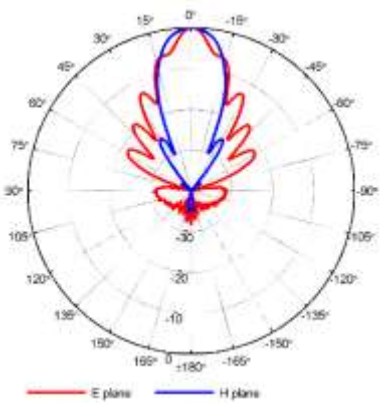
14 GHz



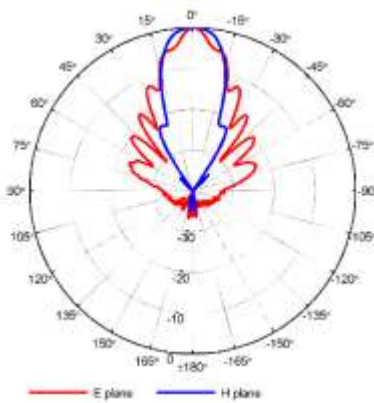
15 GHz



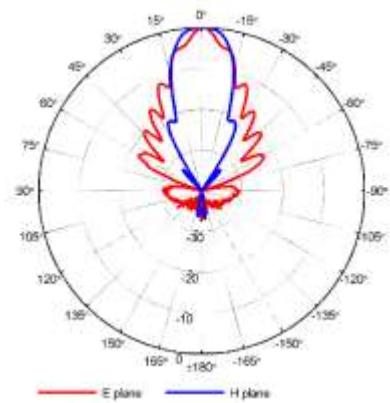
16 GHz



17 GHz



18 GHz



Pyramidal Horn Antenna – Model H-A40

Electrical Specifications

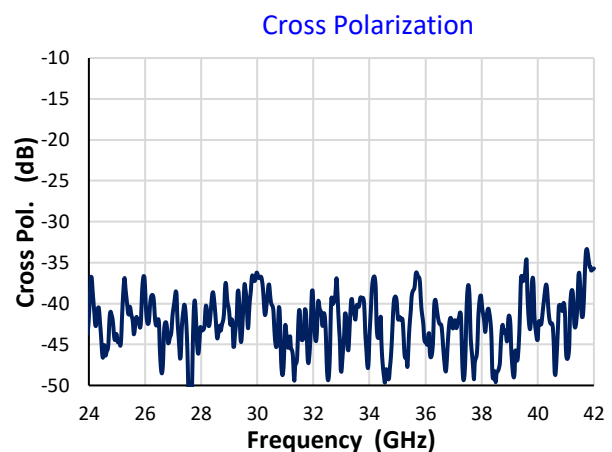
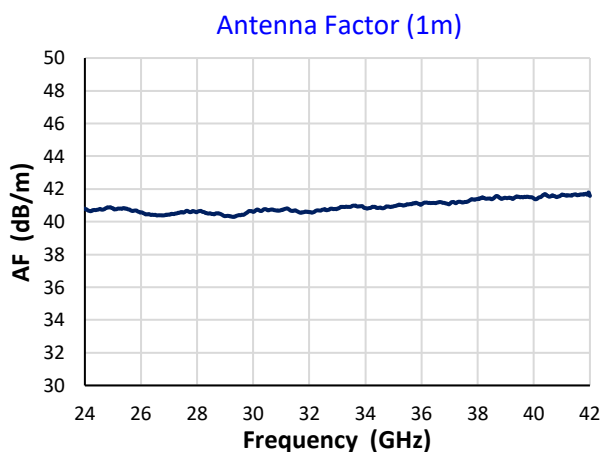
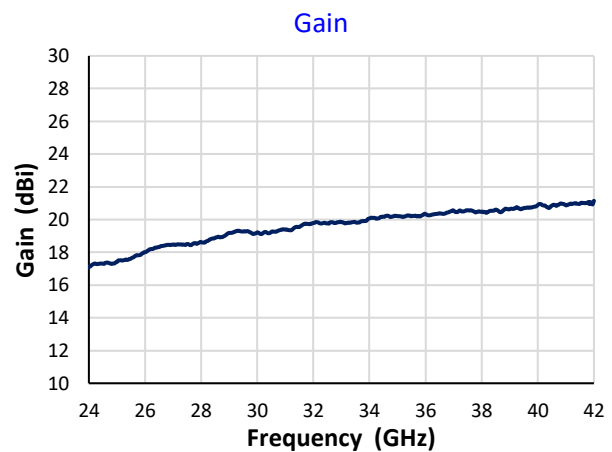
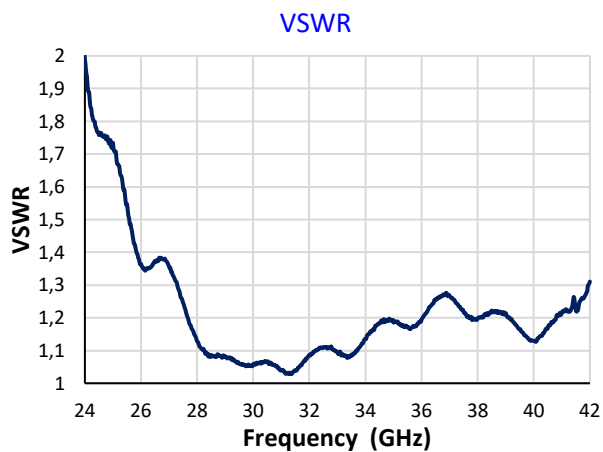
| | |
|--------------------|----------------------|
| Frequency Range | 26 (28) GHz – 40 GHz |
| VSWR (max.) | < 1.3 |
| Impedance | 50 Ω |
| Connector | K female |
| Power (CW / Pulse) | 15 W / 30 W |



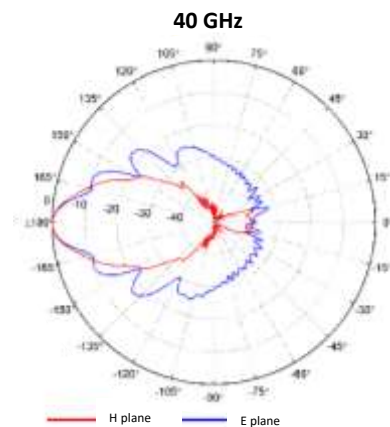
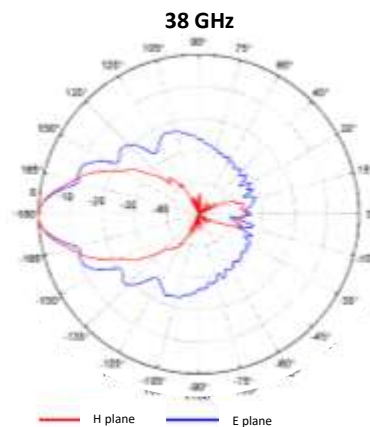
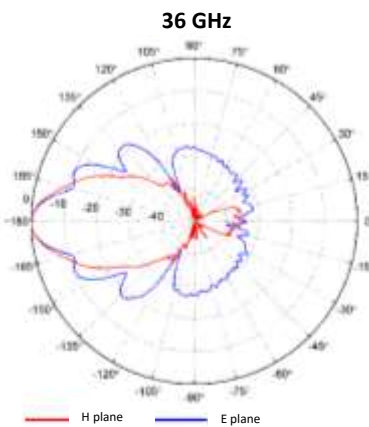
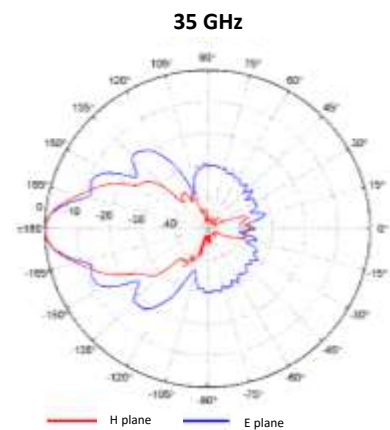
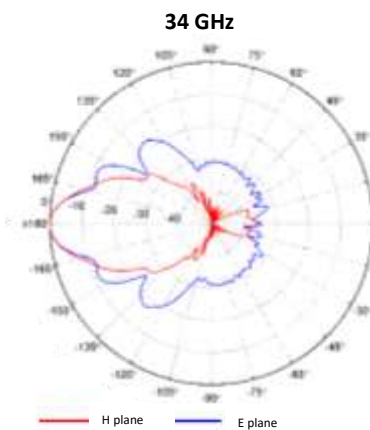
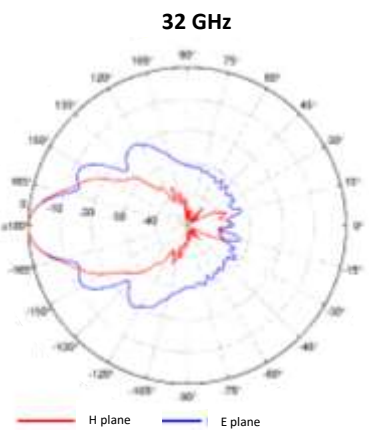
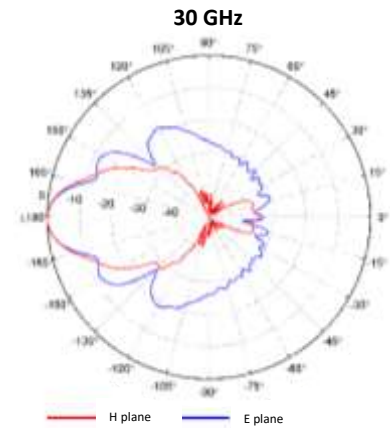
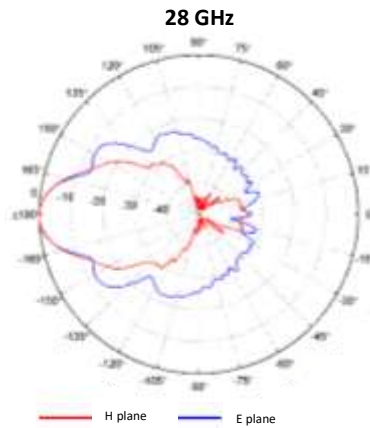
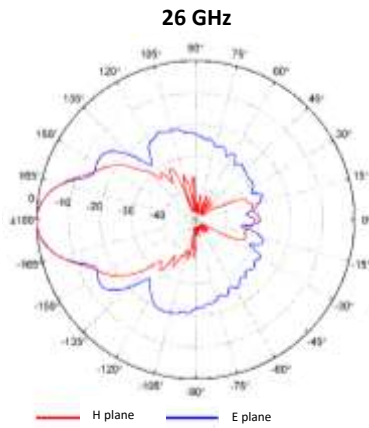
Physical Specifications

| | |
|--------|-------------------|
| Width | 39.7 mm (1.56 in) |
| Depth | 67.5 mm (2.66 in) |
| Height | 29 mm (1.14 in) |
| Weight | 145 g (0.31 lb.) |

Typical Parameters



Radiation Patterns



Pyramidal Horn Antenna – Model H-A50

Electrical Specifications

| | |
|--------------------|-----------------|
| Frequency Range | 33 GHz – 50 GHz |
| VSWR (max.) | < 1.35 |
| Impedance | 50 Ω |
| Connector | 2.40mm female |
| Power (CW / Pulse) | 10 W / 20 W |

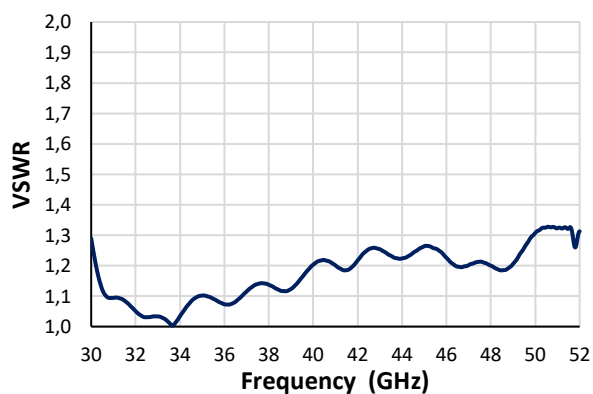
Physical Specifications

| | |
|--------|-------------------|
| Width | 36.4 mm (1.43 in) |
| Depth | 25.9 mm (1.02 in) |
| Height | 58.8 mm (2.32 in) |
| Weight | 125 g (0.28 lb.) |

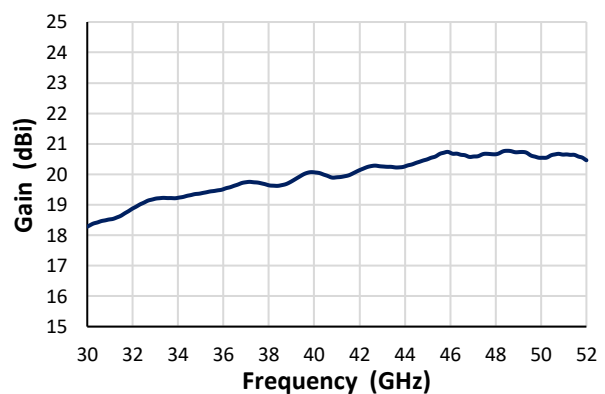


Typical Parameters

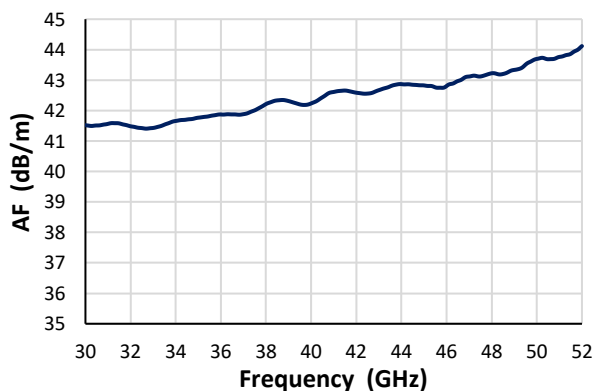
VSWR



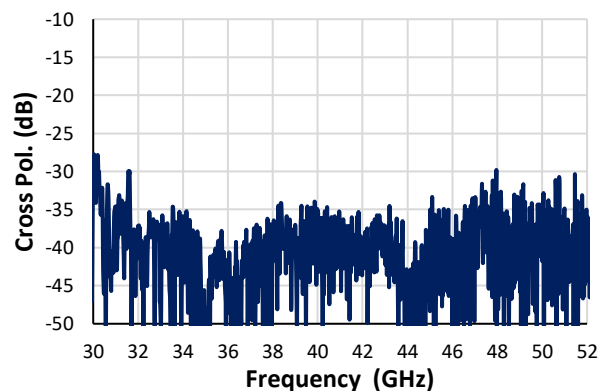
Gain



Antenna Factor (1m)

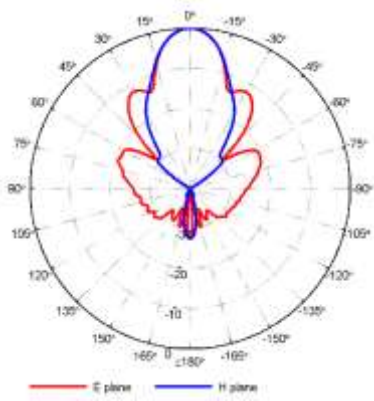


Cross Polarization

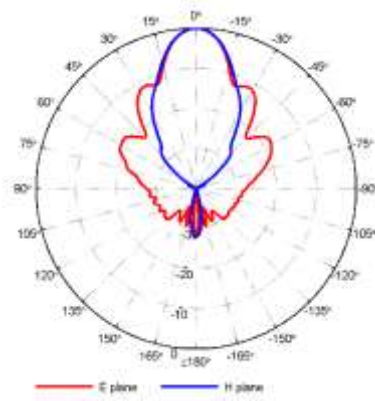


Radiation Patterns

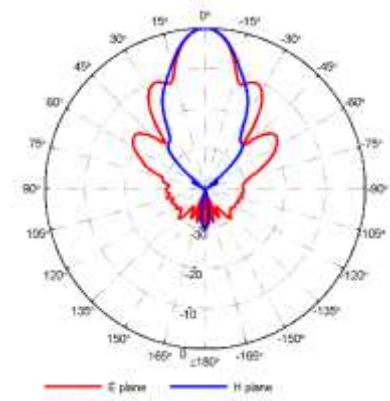
33 GHz



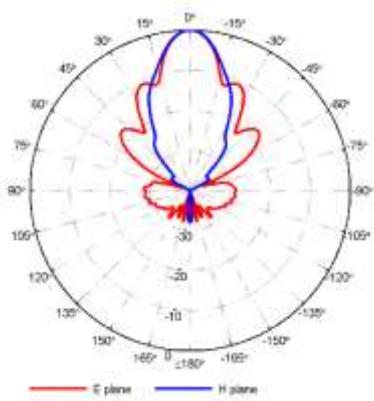
35 GHz



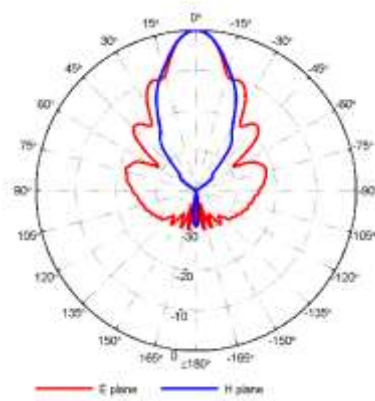
37.5 GHz



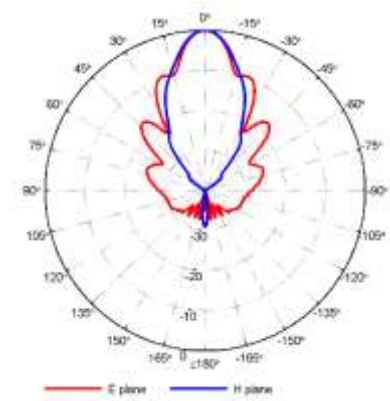
40 GHz



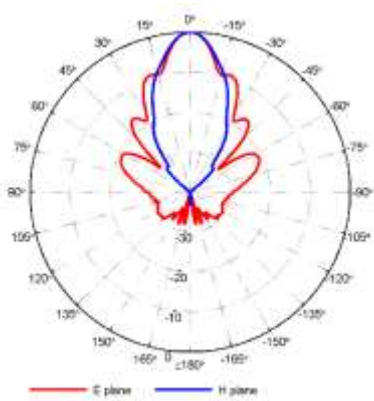
42.5 GHz



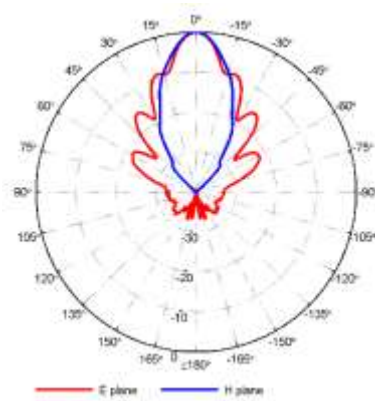
45 GHz



47.5 GHz



50 GHz



Pyramidal Horn Antenna – Model H-A60-W

Electrical Specifications

| | |
|--------------------|----------------------|
| Frequency Range | 40 GHz – 60 GHz |
| VSWR (max.) | < 1.15 |
| Connector | WR-19, UG-383 flange |
| Gain | 19 – 21 dBi |
| HPBW | 14° - 19° |
| Polarization | linear |
| Power (CW / Pulse) | 150 W / 250 W |

Physical Specifications

| | |
|--------|--------------------|
| Width | 31.9 mm (1.256 in) |
| Depth | 39.1 mm (1.539 in) |
| Height | 23.4 mm (0.921 in) |
| Weight | 62 g (0.136 lb.) |



Pyramidal Horn Antenna – Model H-A75-W

Electrical Specifications

| | |
|--------------------|----------------------|
| Frequency Range | 50 GHz – 75 GHz |
| VSWR (max.) | < 1.15 |
| Connector | WR-15, UG-383 flange |
| Gain | 19 – 21 dBi |
| HPBW | 14° - 19° |
| Polarization | linear |
| Power (CW / Pulse) | 150 W / 250 W |

Physical Specifications

| | |
|--------|--------------------|
| Width | 24.8 mm (1.256 in) |
| Depth | 31.8 mm (1.539 in) |
| Height | 18.8 mm (0.921 in) |
| Weight | 30 g (0.066 lb.) |



Pyramidal Horn Antenna – Model H-A90-W

Electrical Specifications

| | |
|--------------------|----------------------|
| Frequency Range | 60 GHz – 90 GHz |
| VSWR (max.) | < 1.15 |
| Connector | WR-12, UG-387 flange |
| Gain | 19 – 21 dBi |
| HPBW | 14° - 19° |
| Polarization | linear |
| Power (CW / Pulse) | 150 W / 250 W |

Physical Specifications

| | |
|--------|--------------------|
| Width | 21.6 mm (0.850 in) |
| Depth | 27.7 mm (1.091 in) |
| Height | 16.6 mm (0.654 in) |
| Weight | 26 g (0.057 lb.) |



Pyramidal Horn Antenna – Model H-A110-W

Electrical Specifications

| | |
|--------------------|----------------------|
| Frequency Range | 75 GHz – 110 GHz |
| VSWR (max.) | < 1.18 |
| Connector | WR-10, UG-387 flange |
| Gain | 19 – 21 dBi |
| HPBW | 14° - 19° |
| Polarization | linear |
| Power (CW / Pulse) | 150 W / 250 W |

Physical Specifications

| | |
|--------|--------------------|
| Width | 17.9 mm (0.705 in) |
| Depth | 22.9 mm (0.902 in) |
| Height | 14.3 mm (0.563 in) |
| Weight | 22 g (0.048 lb.) |



Pyramidal Horn Antenna – Model H-A90-W25

Electrical Specifications

| | |
|--------------------|----------------------|
| Frequency Range | 60 GHz – 90 GHz |
| VSWR (max.) | < 1.15 |
| Connector | WR-10, UG-387 flange |
| Gain | 24 – 26 dBi |
| HPBW | 7° - 12° |
| Polarization | linear |
| Power (CW / Pulse) | 150 W / 250 W |

Physical Specifications

| | |
|--------|--------------------|
| Width | 33.6 mm (1.323 in) |
| Depth | 84.8 mm (3.339 in) |
| Height | 25.8 mm (1.016 in) |
| Weight | 72 g (0.158 lb.) |



Pyramidal Horn Antenna – Model H-A110-W25

Electrical Specifications

| | |
|--------------------|----------------------|
| Frequency Range | 75 GHz – 110 GHz |
| VSWR (max.) | < 1.15 |
| Connector | WR-10, UG-387 flange |
| Gain | 24 – 26 dBi |
| HPBW | 7° - 11° |
| Polarization | linear |
| Power (CW / Pulse) | 150 W / 250 W |

Physical Specifications

| | |
|--------|--------------------|
| Width | 27.8 mm (1.094 in) |
| Depth | 68.8 mm (2.709 in) |
| Height | 21.4 mm (0.843 in) |
| Weight | 56 g (0.123 lb.) |



Double ridged waveguide to coax adapter

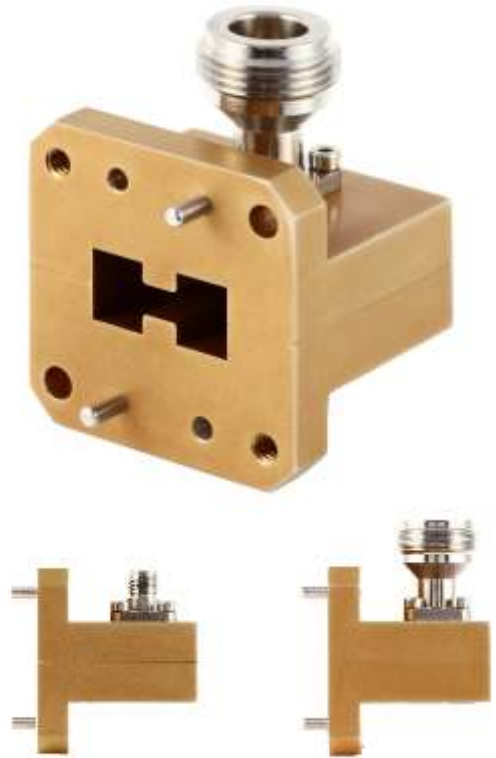
Model ADRWC750

Electrical Specifications

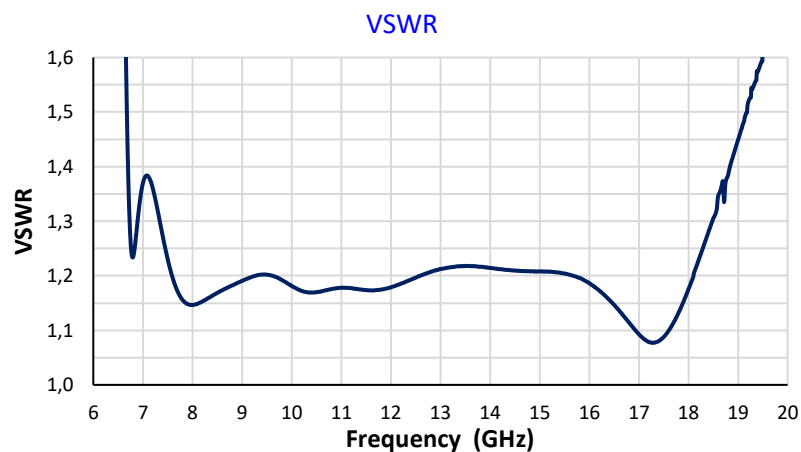
| | |
|-----------------|----------------|
| Frequency Range | 7.5 – 18 GHz |
| VSWR (max.) | 1.25 |
| Impedance | 50 Ω |
| Connector | N / SMA female |
| Waveguide | WRD750 |
| Flange size | FPWRD750D24 |
| Insertion loss | 0.4 dB |

Physical Specifications

| | |
|----------|------------------------|
| Width | 34.9 mm (1.374 in) |
| Depth | 30.0 mm (1.181 in) |
| Height | 34.9 mm (1.374 in) |
| Weight | 60 g (N) / 50 g (SMA) |
| Material | Aluminum (ALODINE1200) |



Typical Parameters



Waveguide to coax adapter – Model AWC19F

Electrical Specifications

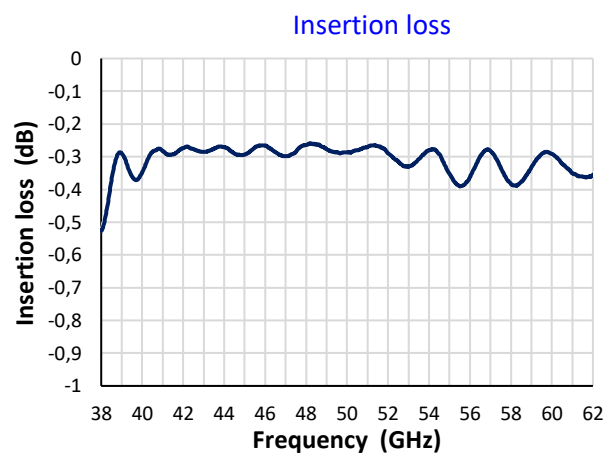
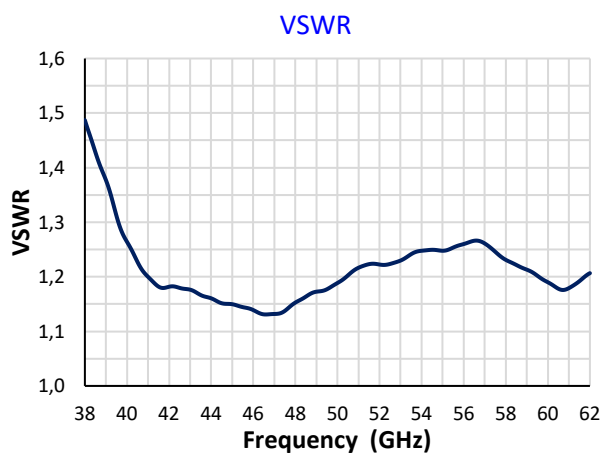
| | |
|-----------------|----------------|
| Frequency Range | 40 – 60 GHz |
| VSWR (max.) | < 1.35 |
| Impedance | 50 Ω |
| Connector | 1.85 mm female |
| Waveguide | WR-19 |
| Flange size | UG-383/U-Mod |
| Insertion loss | 0.4 dB |

Physical Specifications

| | |
|----------|-------------------|
| Width | 28.7 mm (1.13 in) |
| Depth | 28.7 mm (1.13 in) |
| Height | 27.8 mm (1.09 in) |
| Weight | 47 g (0.104 lb) |
| Material | gold-plated brass |



Typical Parameters



Waveguide to coax adapter – Model AWC15F

Electrical Specifications

| | |
|-----------------|----------------|
| Frequency Range | 50 – 67 GHz |
| VSWR (max.) | < 1.4 |
| Impedance | 50 Ω |
| Connector | 1.85 mm female |
| Waveguide | WR-15 |
| Flange size | UG-385/U |
| Insertion loss | 0.6 dB |

Physical Specifications

| | |
|----------|-------------------|
| Width | 19.1 mm (0.75 in) |
| Depth | 19.1 mm (0.75 in) |
| Height | 27.9 mm (1.10 in) |
| Weight | 27 g (0.06 lb) |
| Material | gold-plated brass |



Typical Parameters

