DATASHEET

airFiber® X Antenna

Slant 45 Antenna for airFiber®

Model: AF-2G24-S45, AF-3G26-S45,
AF-5G23-S45, AF-5G30-S45, AF-5G34-S45

Powerful Performance for Long-Range Links

Robust Design and Construction for Outdoor Use

Seamless Integration with airFiber Radio

UBIQUITI®
NETWORKS

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The airFiber X supports ± 45° slant polarization for improved noise immunity and Signal-to-Noise Ratio (SNR). The compact IRUP©IDFWRU©RI©WKH©DLU)LEHU©;©DOORZV©LW©WR©½W©LQWR©WKH©UDGLF

The airFiber X antennas are purpose-built with 45° slant polarity for seamless integration with the airFiber X.

airFiber X Antenna

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Model	Frequency	Gain	Radome*
AF-2G24-S45	2.4 GHz	24 dBi	RAD-RD2

The AF-2G24-S45 offers 24 dBi of gain in a 650-mm diameter size.

airFiber X Antenna

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Model	Frequency	Gain	Radome*
AF-3G26-S45	3 GHz	26 dBi	RAD-RD2

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Model	Frequency	Gain	Radome
AF-5G23-S45	5.1 - 5.9 GHz	23 dBi	Integrated

Housed in a compact form factor (378-mm diameter size), the AF-5G23-S45 offers 23 dBi of gain and features the following advantages:

- Low sidelobes reduce interference from other transmitters in the area.
- High isolation enhances performance for co-location in tower-mounted installations.
- 7 K H © O R Z õ S U R ½ O H © G H V L J Q © Z L W K © L Q W H J U D W H G © wind-loading.

Model	Frequency	Gain[1]	Radome[2]
AF-5G30-S45	4.9 - 5.9 GHz	26 - 30 dBi	ISO-BEAM-620

The AF-5G30-S45 offers up to 30 dBi of gain in a 650-mm G L D P H W H U V L] H

Model	Frequency	Gain[1]	Radome[2]
AF-5G34-S45	4.9 - 5.8 GHz	30 - 34 dBi	RAD-RD3

The AF-5G34-S45 offers up to 34 dBi of gain in a 1050-mm G L D P H W H U V L] H ©

[1] Check your local/regional regulations for the maximum antenna gain allowed for your application.

[2] A radome is available as an optional accessory.

airFiber X Antenna

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IsoBeam™

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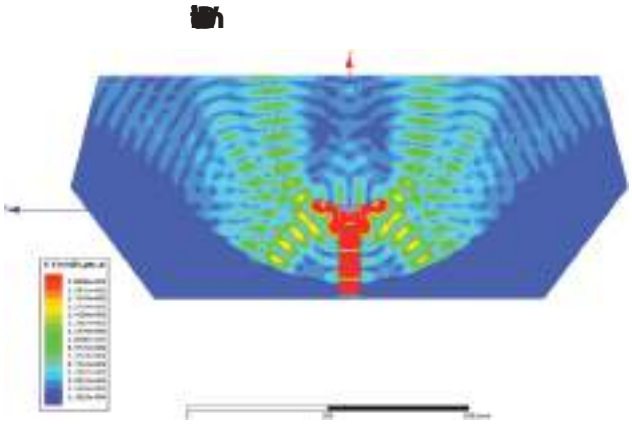
The IsoBeam™ is an isolator radome that is available as an optional accessory for the AF-5G30-S45 and other dish antenna models:

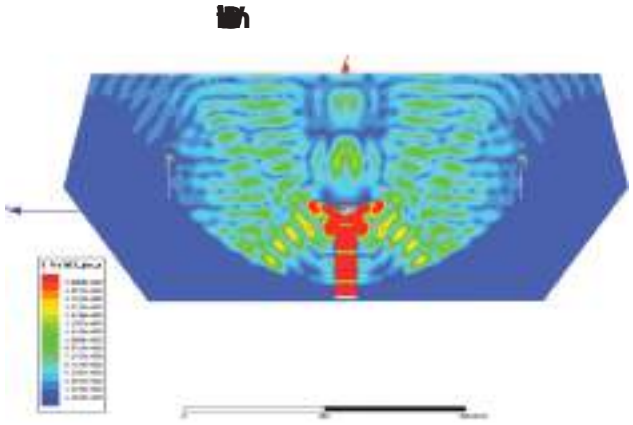
- RocketDish® RD-5G30-LW
- PowerBeam™ PBE-5AC-620
- PowerBeam PBE-M5-620

The innovative RF-choke perimeter of the IsoBeam delivers superior noise immunity in co-location deployments; its perimeter corrugation provides H Q K D Q F H G © 5) © V K L H O G L Q J © & R P S D U H © W K H © W Z R © Q H breakthrough isolation performance of the IsoBeam.

% R W K © Q H D U õ ½ H O G © S O R W V © D U H © G L V S O D \ H G © L Q © Z D W K H © H O H F W U R P D J Q H W L F © ½ H O G © L V © F R O R U õ F R G H G

- Red: Highest strength
- Green: Medium strength
- Indigo: Lowest strength





Precision Alignment Kit

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The Precision Alignment Kit is available as an optional accessory for the AF-5G30-S45. It features 15° of azimuth adjustment and 15° of elevation adjustment to enable extremely accurate aiming for optimal PtP link performance.

The Precision Alignment Kit is also compatible with other dish antenna models:

- RocketDish RD-5G30-LW
- PowerBeam PBE-5AC-620
- PowerBeam PBE-M5-620

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Antenna Characteristics					
Model	AF-2G24-S45	AF-3G26-S45	AF-5G23-S45	AF-5G30-S45	AF-5G34-S45
Dimensions*	ø 650 x 295 mm (ø 25.59 x 11.61")	ø 650 x 300 mm (ø 25.59 x 11.81")	ø 378 x 290 mm (ø 14.88 x 11.42")	ø 650 x 386 mm (ø 25.59 x 15.20")	ø 1050 x 421 mm (ø 41.34 x 16.57")
Weight**	9.8 kg (21.61 lb)	9.8 kg (21.61 lb)	3.4 kg (7.50 lb)	7.4 kg (16.31 lb)	13.5 kg (29.76 lb)
Frequency Range	2.3 - 2.7 GHz	3.3 - 3.8 GHz	5.1 - 5.9 GHz	4.9 - 5.9 GHz	4.9 - 5.8 GHz
Gain	24 dBi	26 dBi	23 dBi	4.9 GHz: 26 dBi 5 - 5.9 GHz: 30 dBi	4.9 GHz: 30 dBi 5 - 5.8 GHz: 34 dBi
+ 45° Beamwidth	6.6° (3 dB)	7° (3 dB)	10° (3 dB)	5.8° (3 dB)	3° (3 dB)
- 45° Beamwidth	6.8° (3 dB)	7° (3 dB)	10° (3 dB)	5.8° (3 dB)	3° (3 dB)
F/B Ratio	28 dB	33 dB	30 dB	30 dB	42 dB
Max. VSWR	1.6:1	1.4:1	1.5:1	1.6:1	1.4:1
Wind Loading	787 N @ 200 km/h (177 lbf @125 mph)	787 N @ 200 km/h (177 lbf @125 mph)	190 N @ 200 km/h (43 lbf @ 125 mph)	790 N @ 200 km/h (178 lbf @ 125 mph)	1,779 N @ 200 km/h (400 lbf @ 125 mph)
Wind Survivability	200 km/h (125 mph)				
Polarization	Dual-Linear				
Cross-pol Isolation	35 dB Min.				
ETSI 6SHFL½FDWLRQ	EN 302 326 DN2				
Mounting	Universal Pole Mount, airFiber X Radio Bracket, and Weatherproof RF Connectors Included				

* Dimensions exclude pole mount and airFiber X radio (airFiber X radio sold separately)

** Weight includes pole mount and excludes airFiber X radio (airFiber X radio sold separately)

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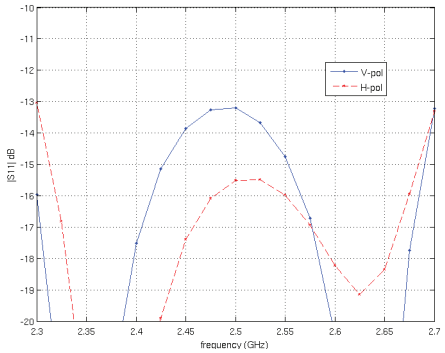
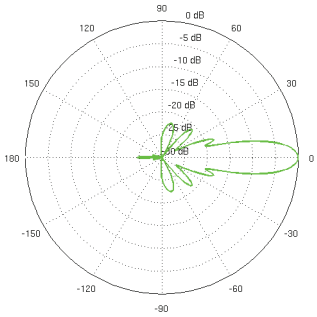
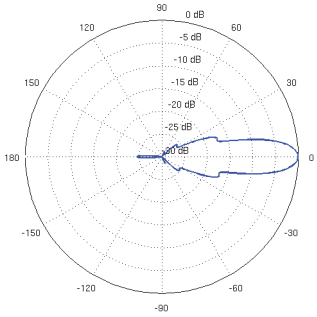
Return Loss



Vertical Azimuth



Vertical Elevation



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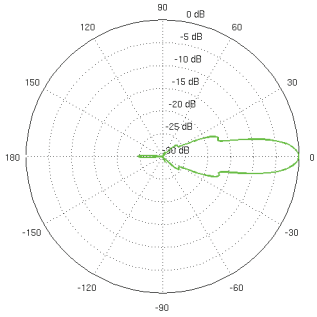
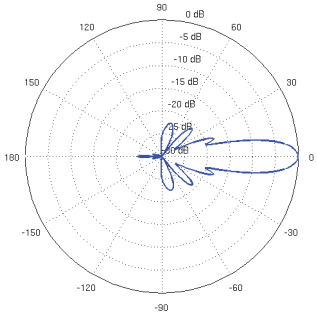


Horizontal Elevation



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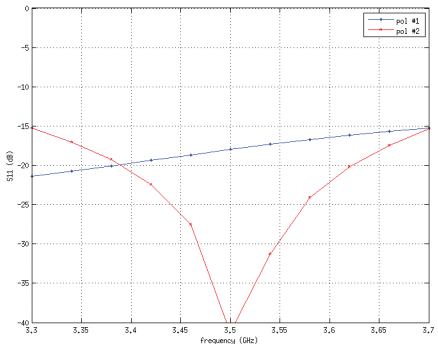
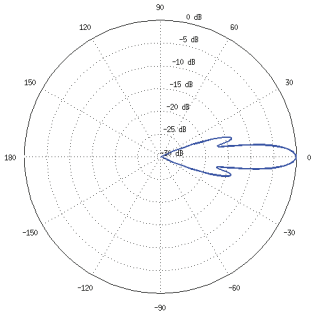
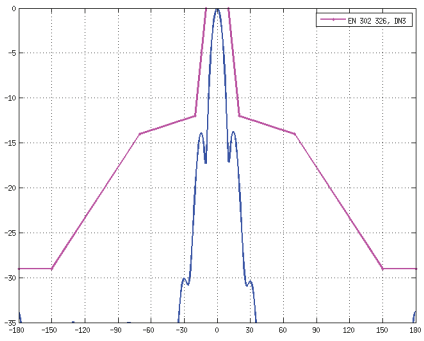


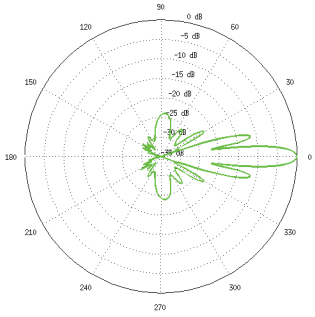
Azimuth, 3550 MHz



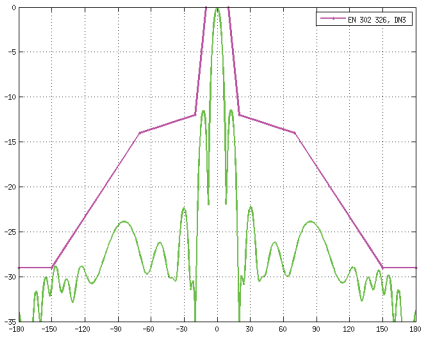
Azimuth Specs



Elevation, 3550 MHz



Elevation Specs



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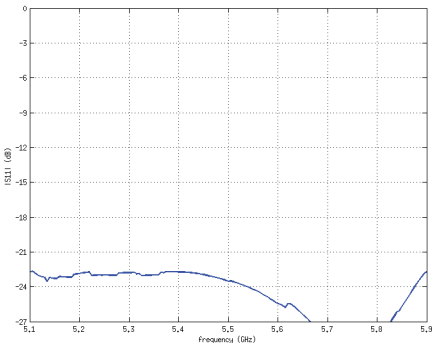
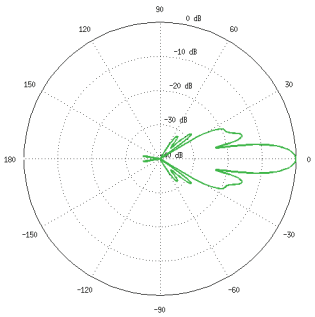


Azimuth, 5500 MHz



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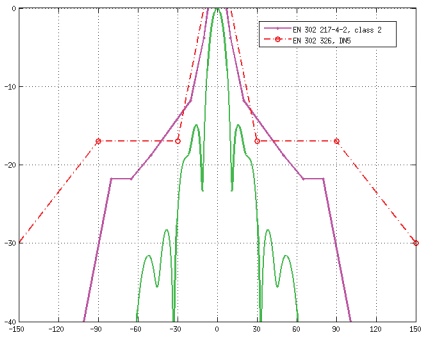
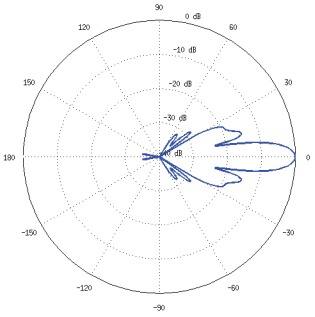


Elevation, 5500 MHz



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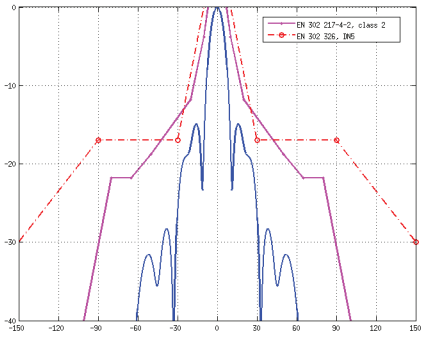

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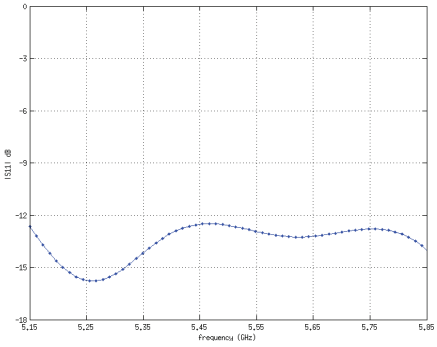
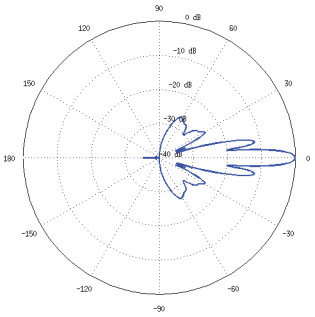


Azimuth, 5500 MHz



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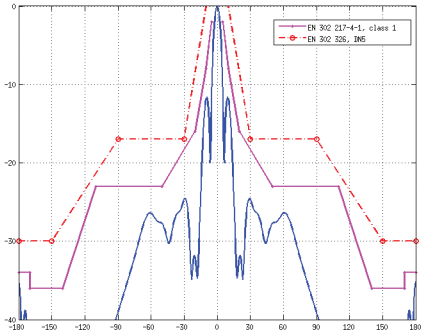

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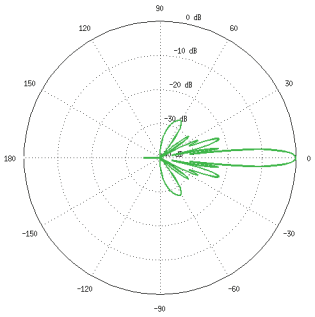

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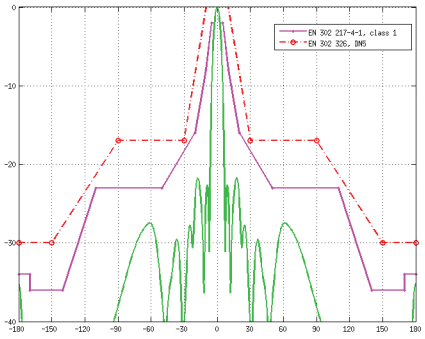

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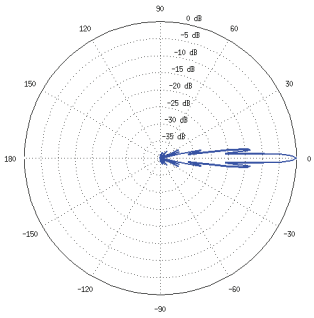
Azimuth, 5500 MHz



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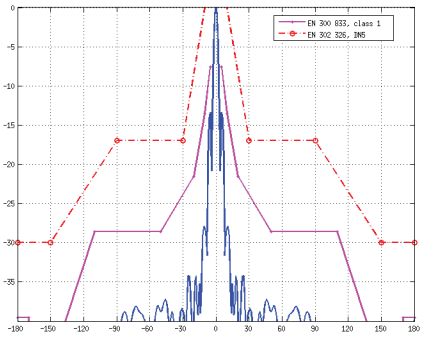
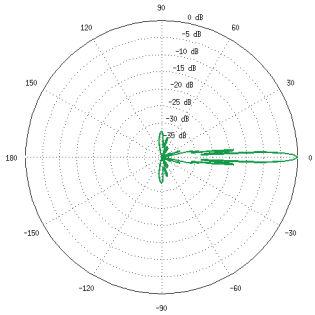


Elevation, 5500 MHz



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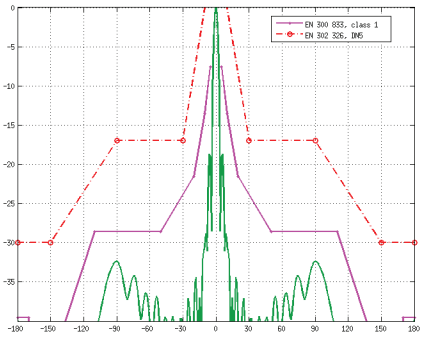

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