

## SENCITY® Spot-S 2x2 WiFi MIMO Antenna 1356.17.0076

### Description

Small directional, planar, linear polarized WiFi antenna with 9 dBi gain  
 Dual-slant +/- 45° for 2x2 WiFi MIMO antenna configuration  
 WLAN IEEE 802.11 a/h/p/n - WiFi band 5.15 - 5.935 GHz  
 Rugged design, meets EN 50155 and EN 50125-3 railway standards  
 Fire retardant acc. to EN 45545-2 and NFPA130  
 For outdoor and indoor applications  
 Ingress protection IP 66 and IP 67

Wall mounting material included



### Product Configuration

### Technical Data

#### Electrical Data

	Band 1
Frequency (MHz)	5150 - 5935
VSWR	2
Impedance (Ohm)	50
Gain (dBi)	9
3dB beamwidth (h) (°)	70
3dB beamwidth (v) (°)	60
Composite power max (W)	30
Ambient temperature (°C)	25
Front to back ratio (dB)	20
Vertical electrical tilt (°)	0
Port Isolation (dB)	20

#### Ports

	Port 1	Port 2
Connector	N, jack (female)	N, jack (female)
Polarization	-45° slant	+45° slant
DC grounded	Yes	Yes

#### Connections

	Band 1
Port 1	X
Port 2	X

#### General Data

#### Mechanical Data

Dimensions (mm)	101 x 81 x 36 (Height x Width x Depth)
Weight (kg)	0.11
Windload	frontal: 15 N at 160 km/h , Wind speed survival: 220 km/h
Included mounting material	Wall mounting material

#### Environmental Data

Environmental conditions	indoor/outdoor
Operation temperature (°C)	-40 to 85
Storage temperature (°C)	-40 to 85
Transport temperature (°C)	-40 to 85
Flammability rating	EN 45545-2

## SENCITY® Spot-S 2x2 WiFi MIMO Antenna 1356.17.0076

2011/65/EU (RoHS - including  
2015/863 and 2017/2102) compliant

Lead-free soldered yes  
WEEE 2012/19/EU special marking needed  
REACH 1907/2006/EC compliant

FLAMMABILITY: EN 45545-2 (2013) HL3 and NFPA130 (2013), also BS 6853 and DIN 5510-2  
ENVIRONMENT: EN 50155 (2016) and EN 50125-3 (2003), also EN 60068 related

IP RATING: IP 66 / IP 67 (IEC 60529)  
SOLAR RADIATION: EN 50125-3:2004 §4.9, 1120 W/m<sup>2</sup> for 20h  
AIR PRESSURE: EN 50125-3:2004 §4.2, Altitude Class A1 (up to 1400m)  
AIR PULE PRESSURE: EN 50125-3:2004 §4.2, 1 kPa/s  
RAIN: EN 50125-3:2004 §4.6, delivery rate: 6 mm/min  
VIBRATION / SHOCK: EN 50125-3:2004 §4.13, position profile: "outside the track"  
POLLUTION: EN 50125-3:2004 §4.11, pollution levels: 4B1, 4S1  
CORROSION: MIL-F-14072 E Type 1 "exposed"  
MECHANICAL IMPACT (HAMMER IMPACT): EN 60068-2-75 (IEC 62262/2002-02 IK06)

### Material Data

Radome colour RAL 7044 (grey)  
Radome material PC (Polycarbonate)

### Related Products

9091.99.0238 SPOT-S Antenna Down- and Sidetilt Bracket  
9091.99.0237 L-Bracket for SPOT-S antennas

### Related Documents

Mounting instruction DOC-0000287053  
Painting instruction DOC-0000256180  
Security instruction DOC-0000278984  
Outline drawing DOU-00139092  
3D-model DOC-0000339646

### Additional Information

Following Declaration of Conformity for SENCITY Spot-S antennas are available on request: \* Industrial standards EN 60068 / EN 60529 / IEC 61373: Ref. DOC-0000318049 \* Railway rolling stock, environmental standards EN 50155 and fire behaviour EN 45545-2k, NFPA130: Ref. DOC-0000380375 \* Railway trackside, environmental standards EN 50125-3 and fire behaviour EN 45545-2: Ref. DOC-0000411396



# SPA 5600/70/9/0/DS

Type: 1356.17.0076

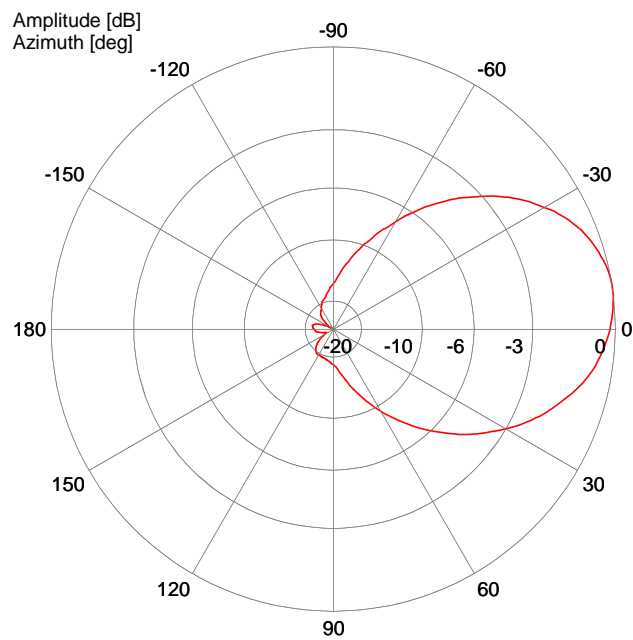
Article-No.: 84078980

Lot-No.: 4276

Port: right slant

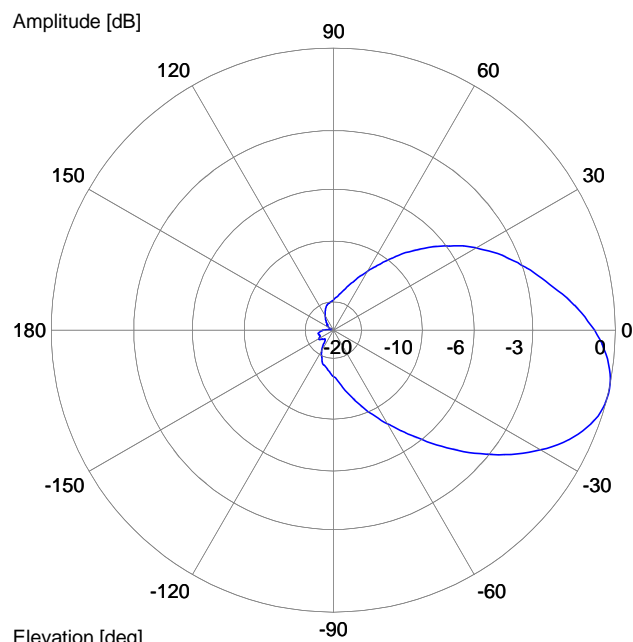
Frequency: 5250 MHz

Radiation Pattern



— Horizontal-Plane: Copolar

Radiation Pattern



— Vertical-Plane: Copolar



# SPA 5600/70/9/0/DS

Type: 1356.17.0076

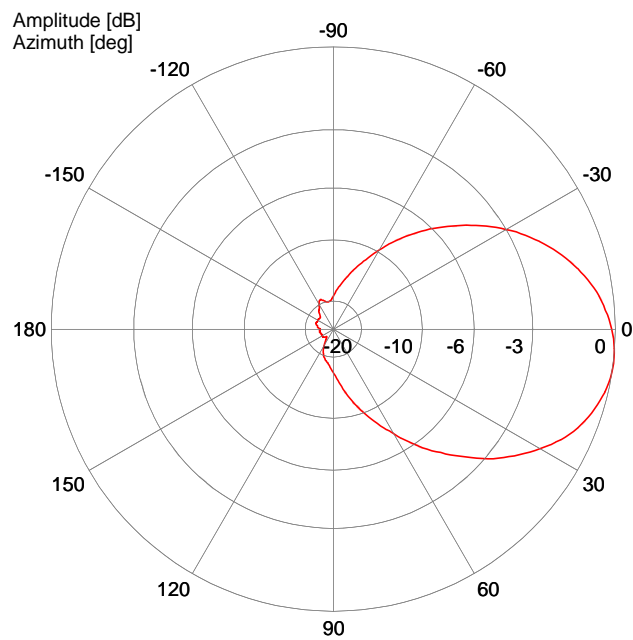
Article-No.: 84078980

Lot-No.: 4276

Port: left slant

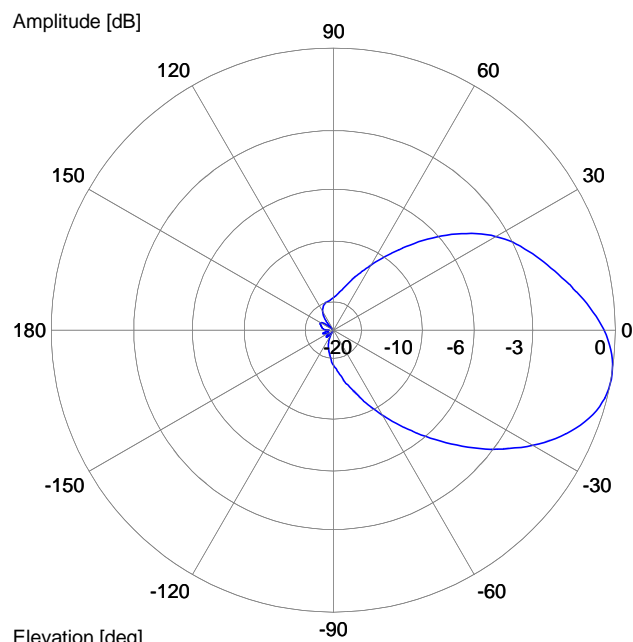
Frequency: 5300 MHz

Radiation Pattern



— Horizontal-Plane: Copolar

Radiation Pattern



— Vertical-Plane: Copolar



# SPA 5600/70/9/0/DS

Type: 1356.17.0076

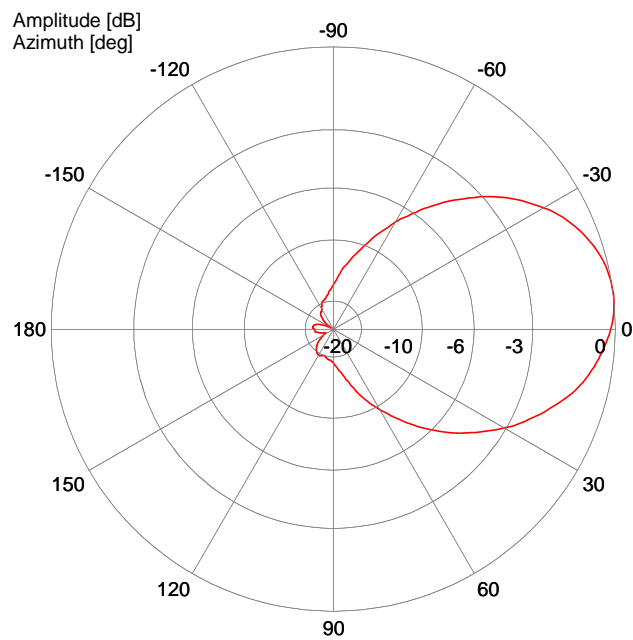
Article-No.: 84078980

Lot-No.: 4276

Port: right slant

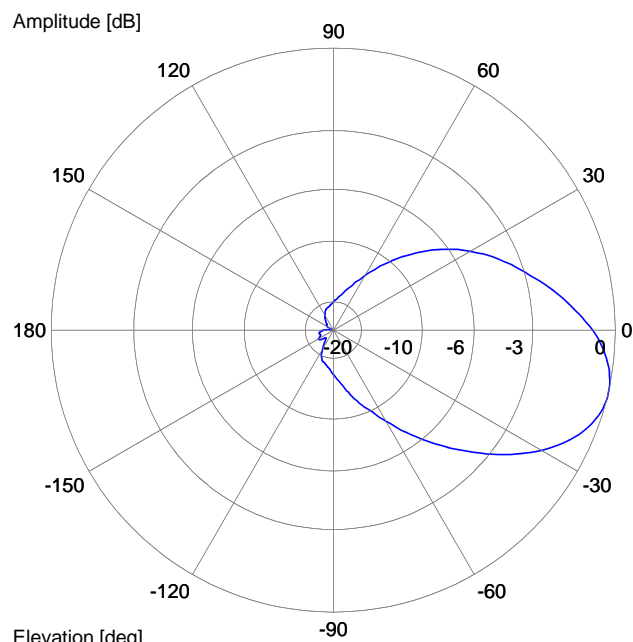
Frequency: 5300 MHz

Radiation Pattern



— Horizontal-Plane: Copolar

Radiation Pattern



— Vertical-Plane: Copolar



# SPA 5600/70/9/0/DS

Type: 1356.17.0076

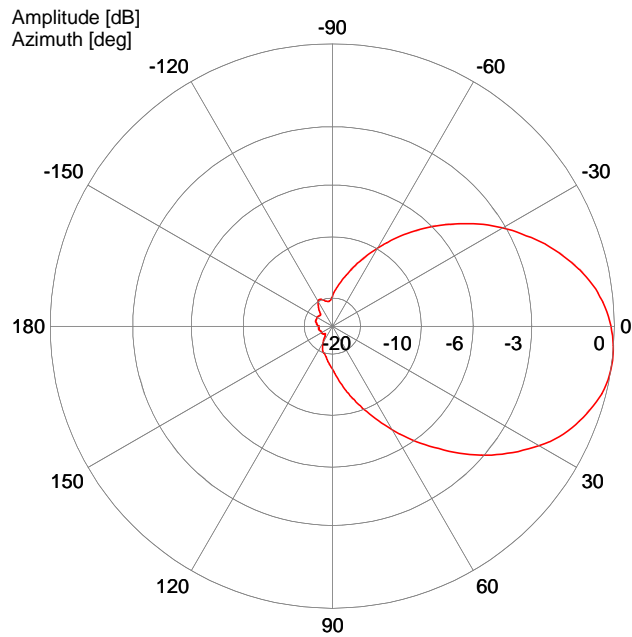
Article-No.: 84078980

Lot-No.: 4276

Port: left slant

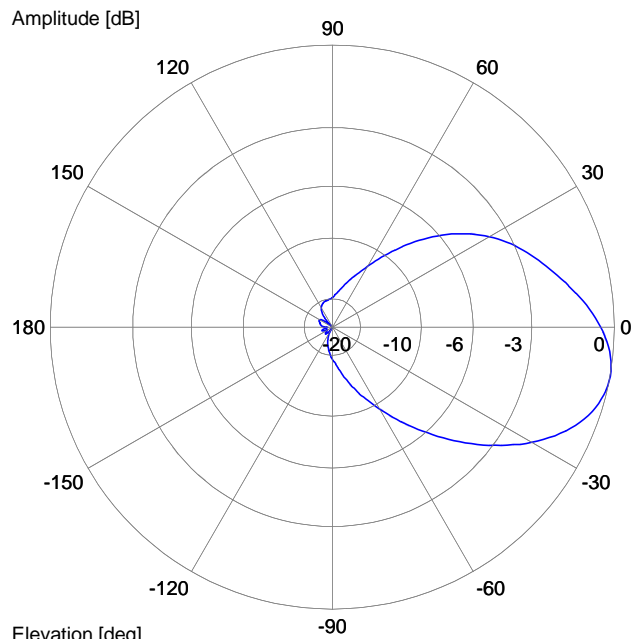
Frequency: 5350 MHz

Radiation Pattern



— Horizontal-Plane: Copolar

Radiation Pattern



— Vertical-Plane: Copolar



# SPA 5600/70/9/0/DS

Type: 1356.17.0076

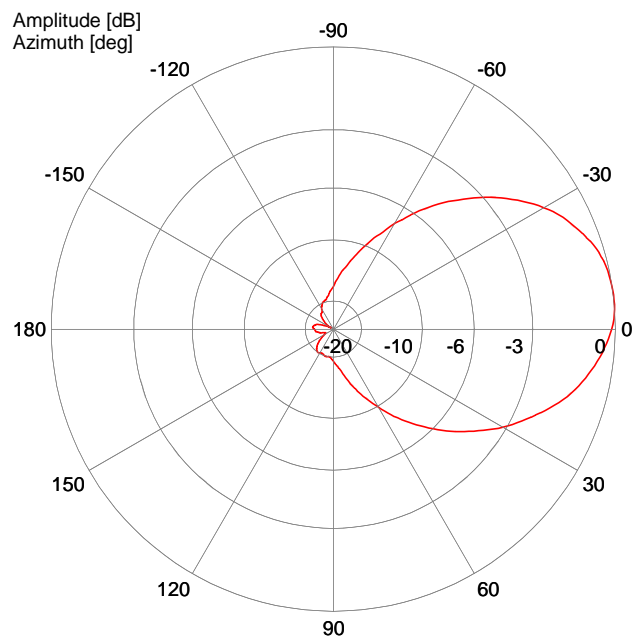
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Lot-No.: 4276

Port: right slant

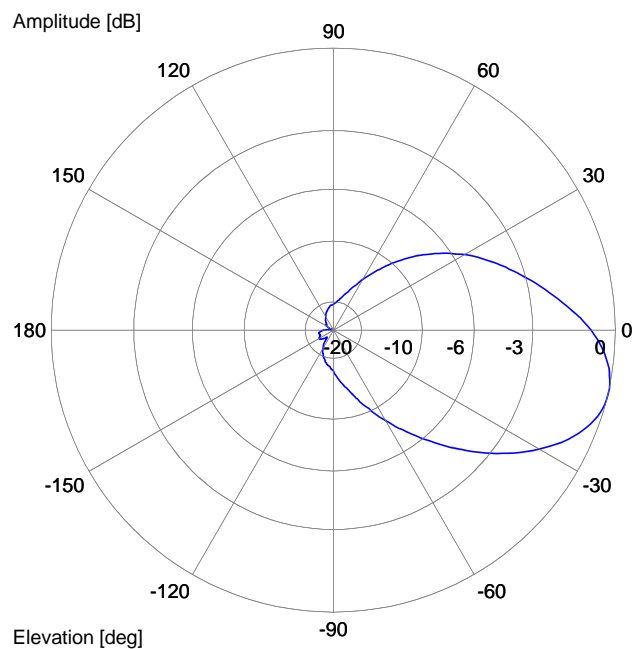
Frequency: 5350 MHz

Radiation Pattern



— Horizontal-Plane: Copolar

Radiation Pattern



— Vertical-Plane: Copolar



# SPA 5600/70/9/0/DS

Type: 1356.17.0076

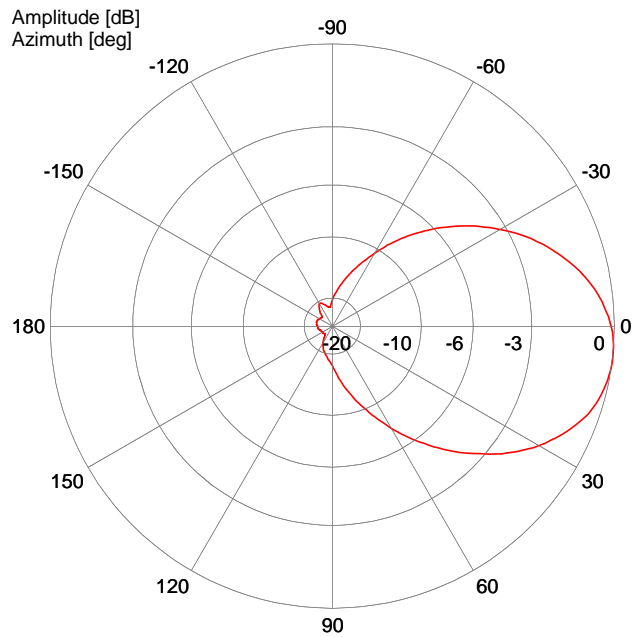
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Lot-No.: 4276

Port: left slant

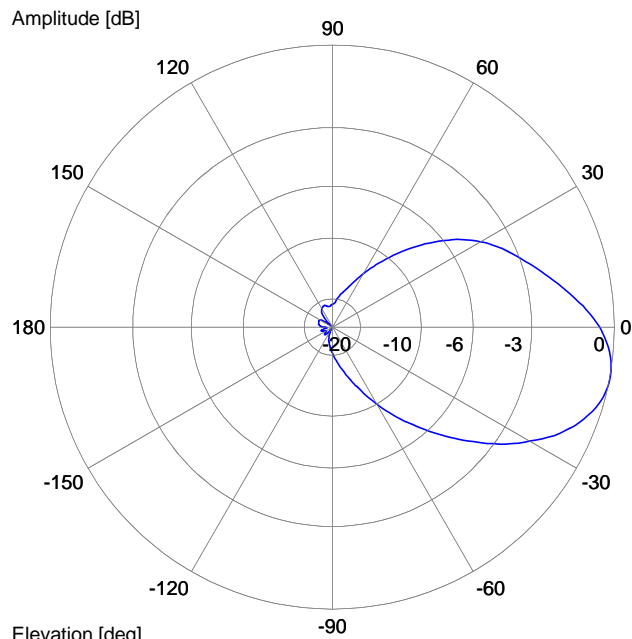
Frequency: 5470 MHz

Radiation Pattern



— Horizontal-Plane: Copolar

Radiation Pattern



— Vertical-Plane: Copolar





# SPA 5600/70/9/0/DS

Type: 1356.17.0076

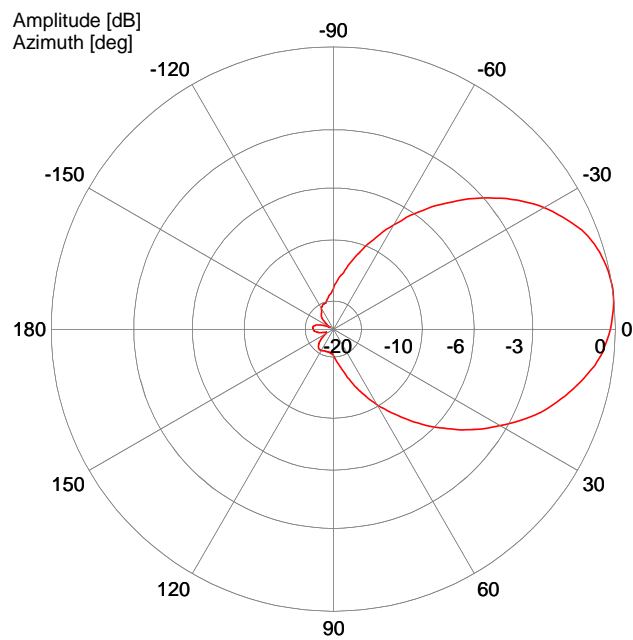
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Lot-No.: 4276

Port: right slant

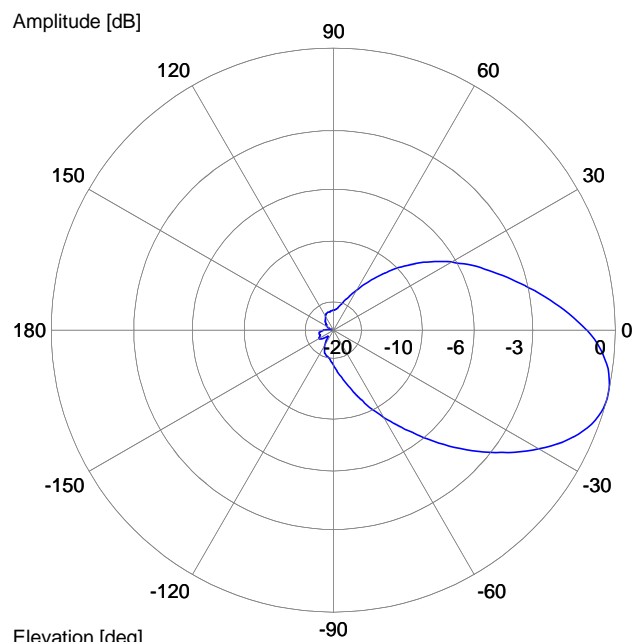
Frequency: 5470 MHz

Radiation Pattern



— Horizontal-Plane: Copolar

Radiation Pattern



— Vertical-Plane: Copolar



# SPA 5600/70/9/0/DS

Type: 1356.17.0076

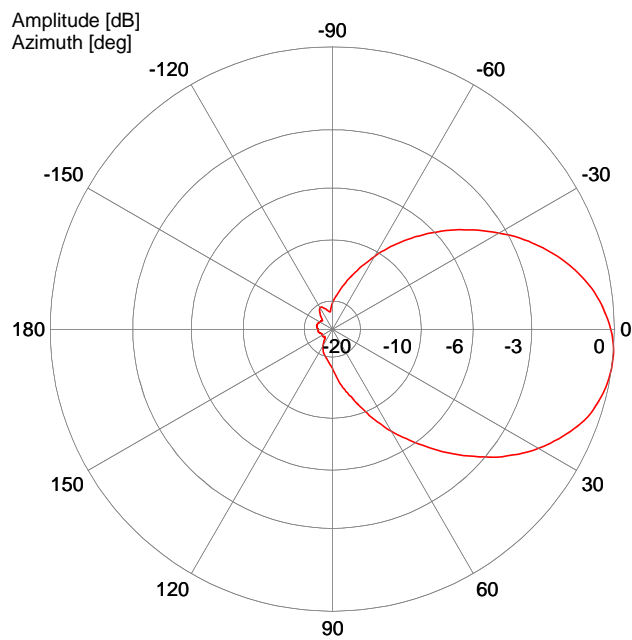
Article-No.: 84078980

Lot-No.: 4276

Port: left slant

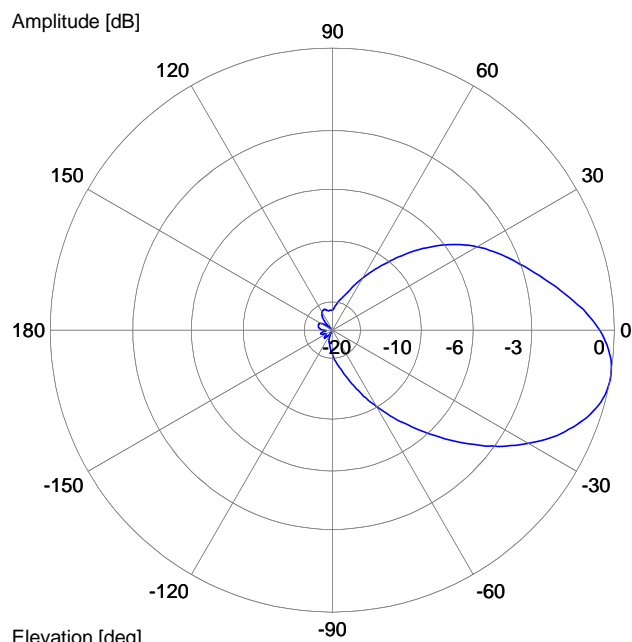
Frequency: 5500 MHz

Radiation Pattern



— Horizontal-Plane: Copolar

Radiation Pattern



— Vertical-Plane: Copolar



# SPA 5600/70/9/0/DS

Type: 1356.17.0076

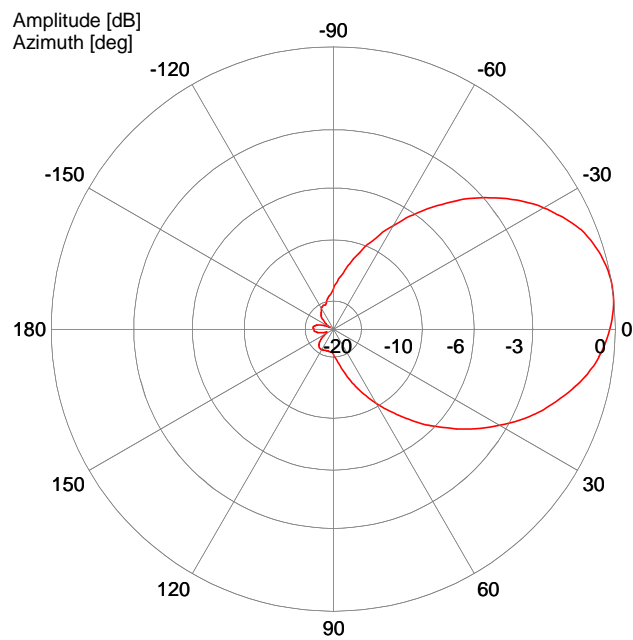
Article-No.: 84078980

Lot-No.: 4276

Port: right slant

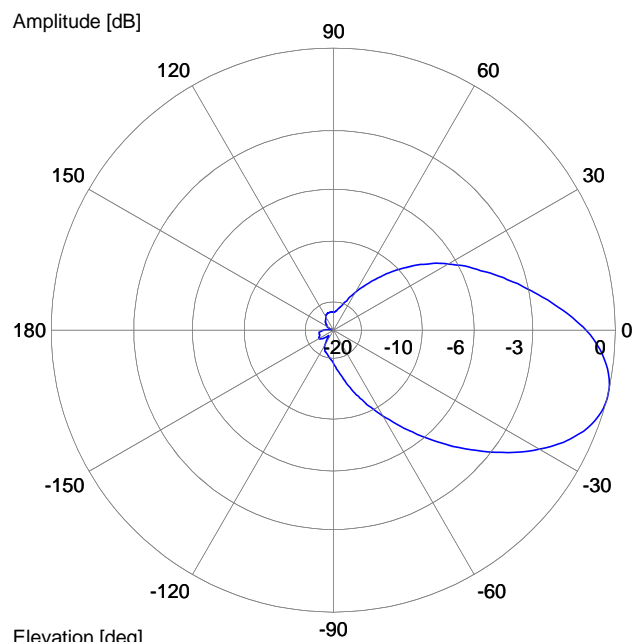
Frequency: 5500 MHz

Radiation Pattern



— Horizontal-Plane: Copolar

Radiation Pattern



— Vertical-Plane: Copolar



# SPA 5600/70/9/0/DS

Type: 1356.17.0076

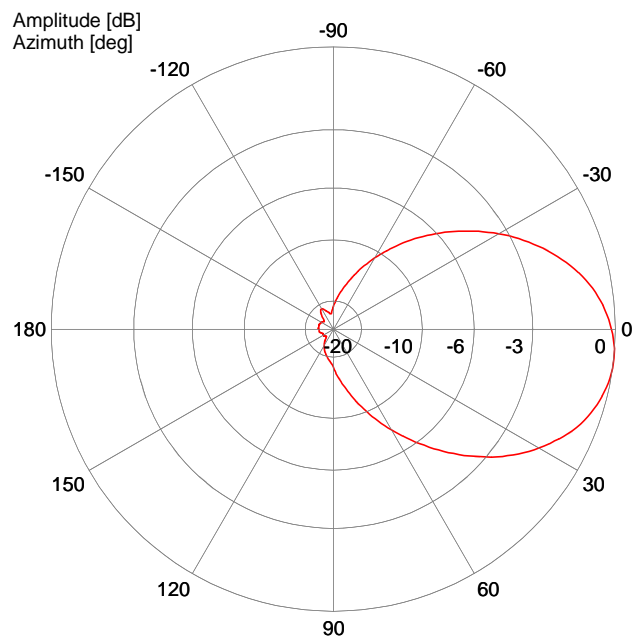
Article-No.: 84078980

Lot-No.: 4276

Port: left slant

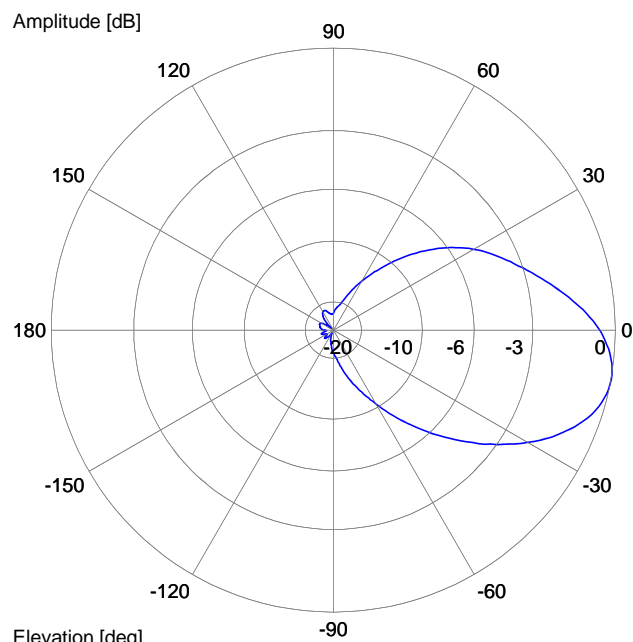
Frequency: 5550 MHz

Radiation Pattern



— Horizontal-Plane: Copolar

Radiation Pattern



— Vertical-Plane: Copolar



# SPA 5600/70/9/0/DS

Type: 1356.17.0076

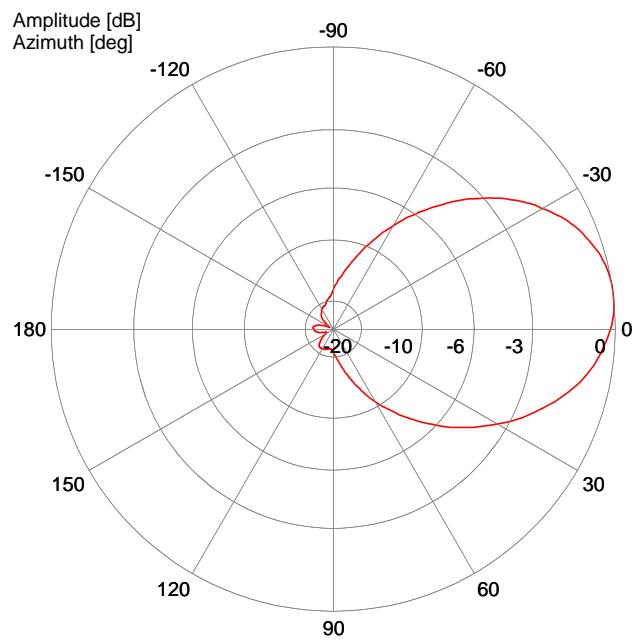
Article-No.: 84078980

Lot-No.: 4276

Port: right slant

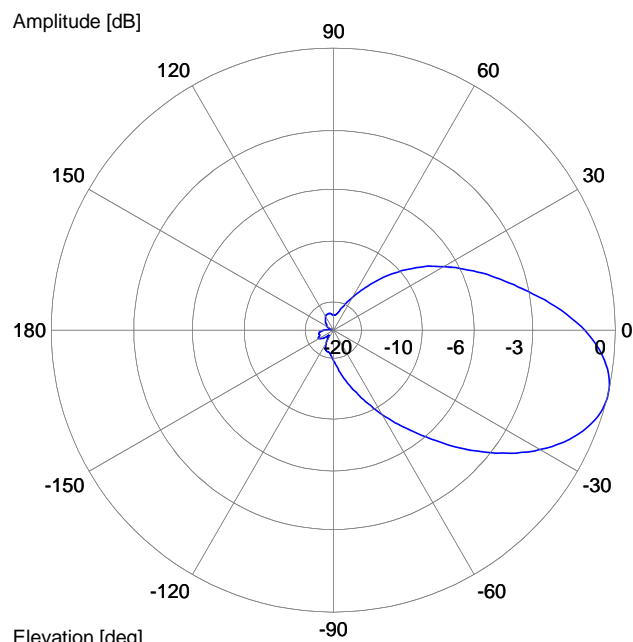
Frequency: 5550 MHz

Radiation Pattern



— Horizontal-Plane: Copolar

Radiation Pattern



— Vertical-Plane: Copolar



# SPA 5600/70/9/0/DS

Type: 1356.17.0076

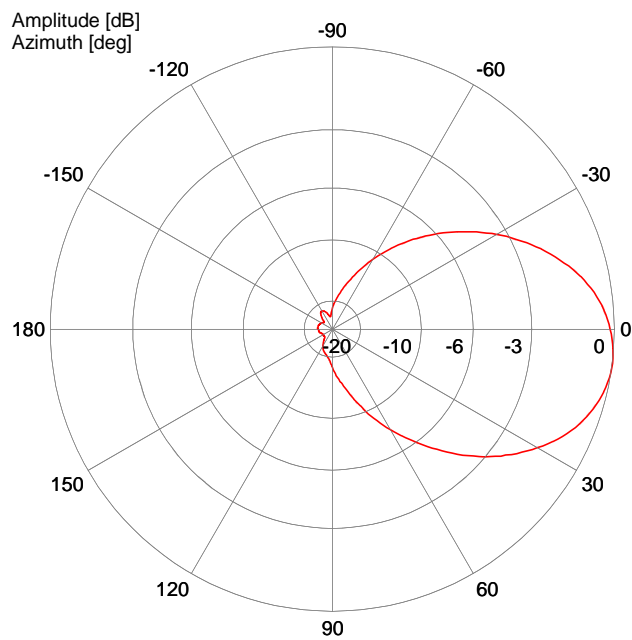
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Lot-No.: 4276

Port: left slant

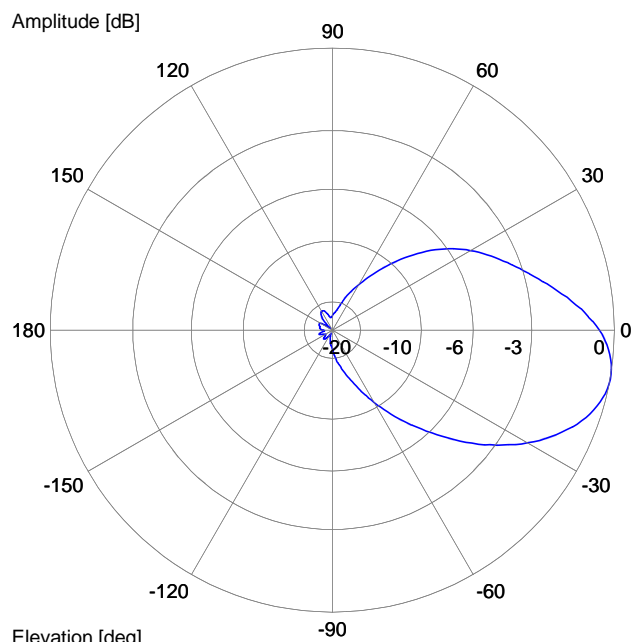
Frequency: 5600 MHz

Radiation Pattern



— Horizontal-Plane: Copolar

Radiation Pattern



— Vertical-Plane: Copolar



# SPA 5600/70/9/0/DS

Type: 1356.17.0076

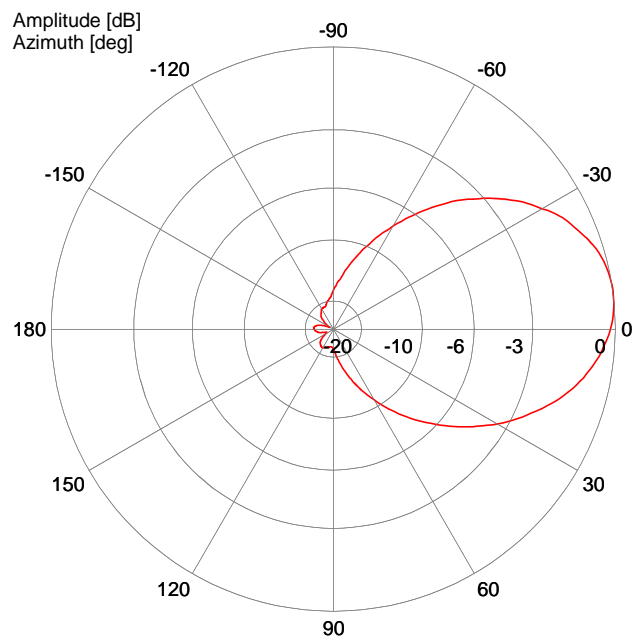
Article-No.: 84078980

Lot-No.: 4276

Port: right slant

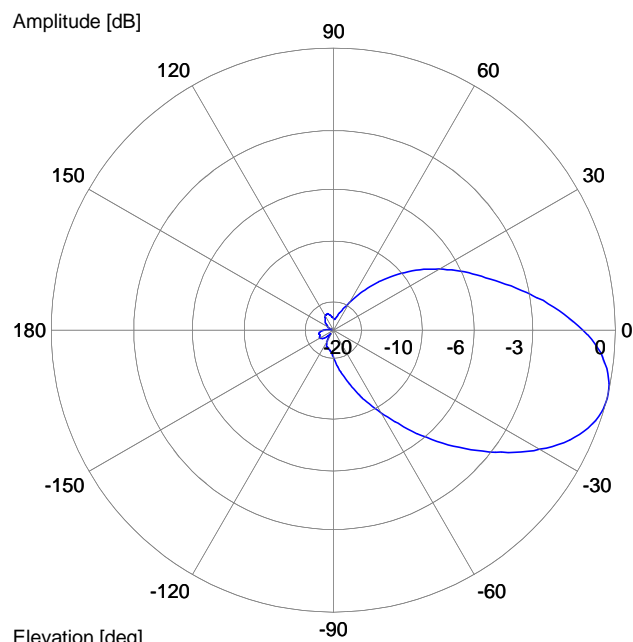
Frequency: 5600 MHz

Radiation Pattern



— Horizontal-Plane: Copolar

Radiation Pattern



— Vertical-Plane: Copolar



# SPA 5600/70/9/0/DS

Type: 1356.17.0076

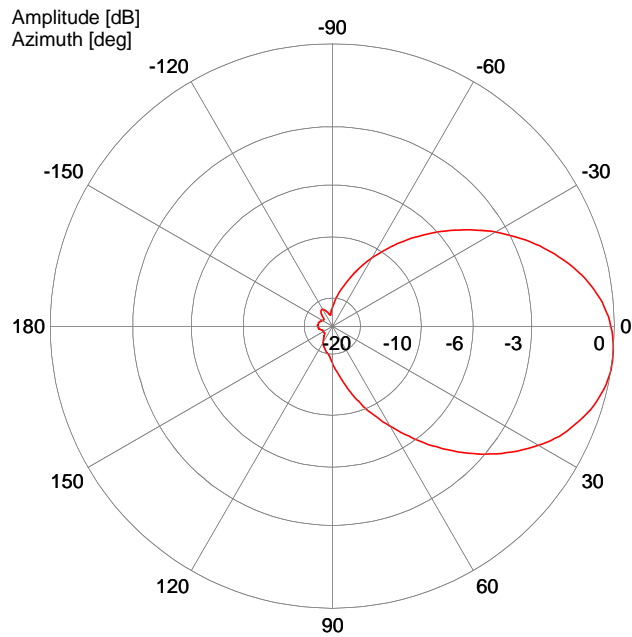
Article-No.: 84078980

Lot-No.: 4276

Port: left slant

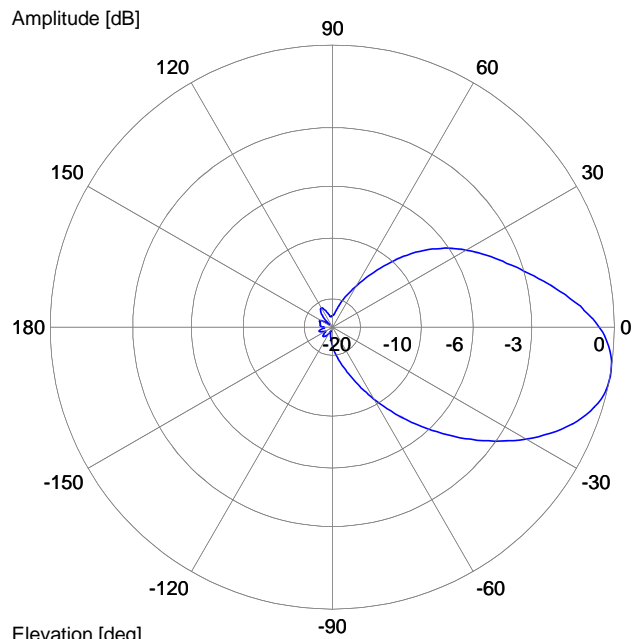
Frequency: 5650 MHz

Radiation Pattern



— Horizontal-Plane: Copolar

Radiation Pattern



— Vertical-Plane: Copolar





# SPA 5600/70/9/0/DS

Type: 1356.17.0076

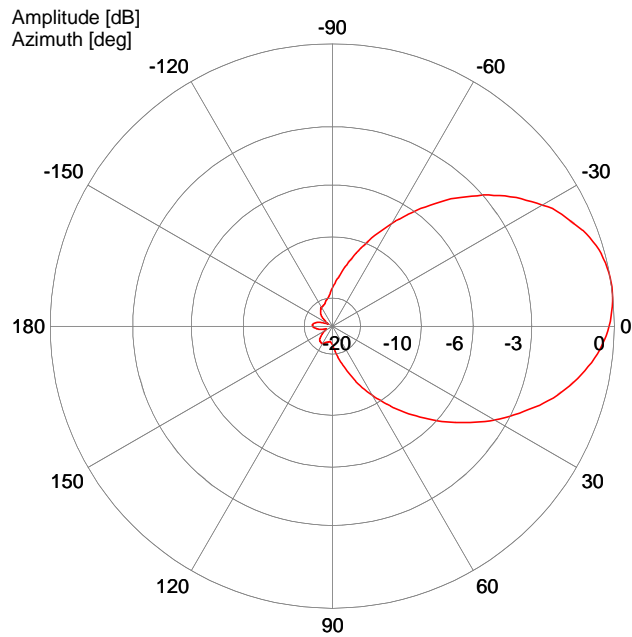
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Lot-No.: 4276

Port: right slant

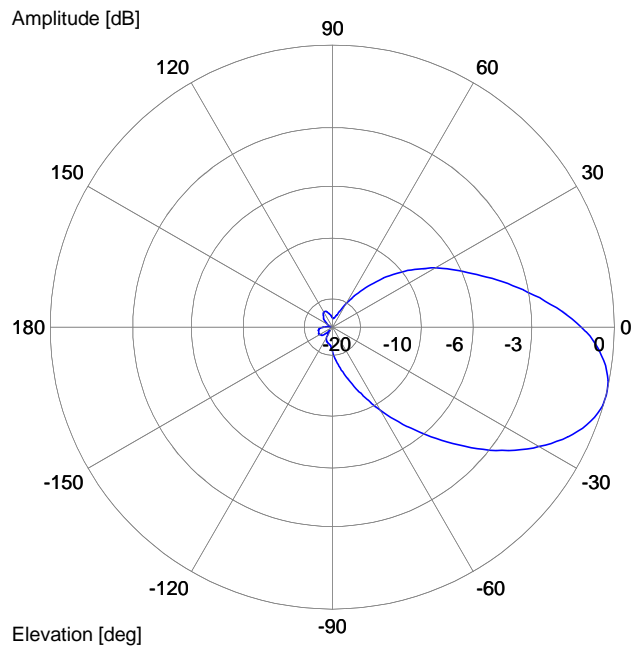
Frequency: 5650 MHz

Radiation Pattern



— Horizontal-Plane: Copolar

Radiation Pattern



— Vertical-Plane: Copolar



# SPA 5600/70/9/0/DS

Type: 1356.17.0076

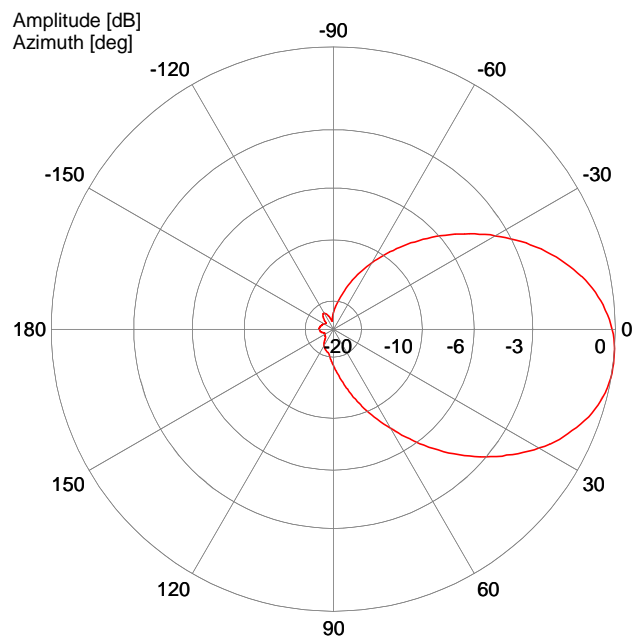
Article-No.: 84078980

Lot-No.: 4276

Port: left slant

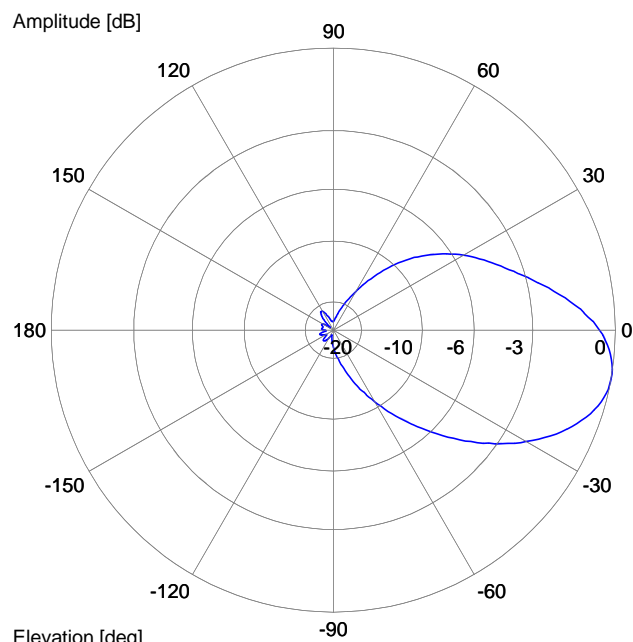
Frequency: 5700 MHz

Radiation Pattern



— Horizontal-Plane: Copolar

Radiation Pattern



— Vertical-Plane: Copolar



# SPA 5600/70/9/0/DS

Type: 1356.17.0076

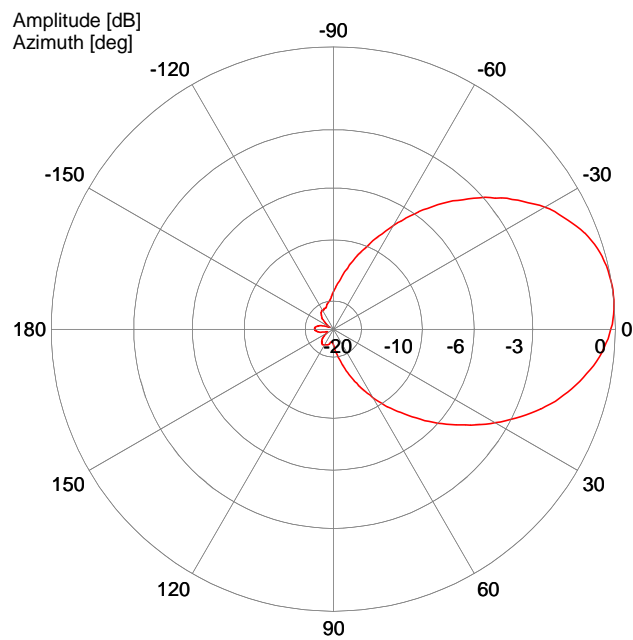
Article-No.: 84078980

Lot-No.: 4276

Port: right slant

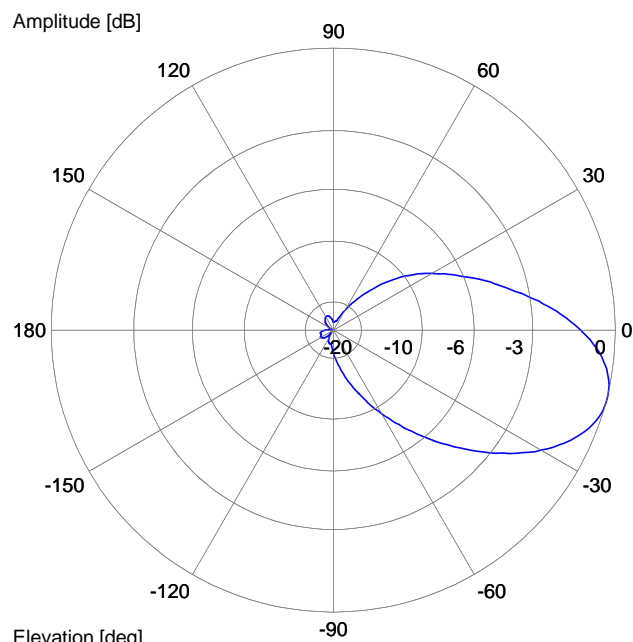
Frequency: 5700 MHz

Radiation Pattern



— Horizontal-Plane: Copolar

Radiation Pattern



— Vertical-Plane: Copolar



# SPA 5600/70/9/0/DS

Type: 1356.17.0076

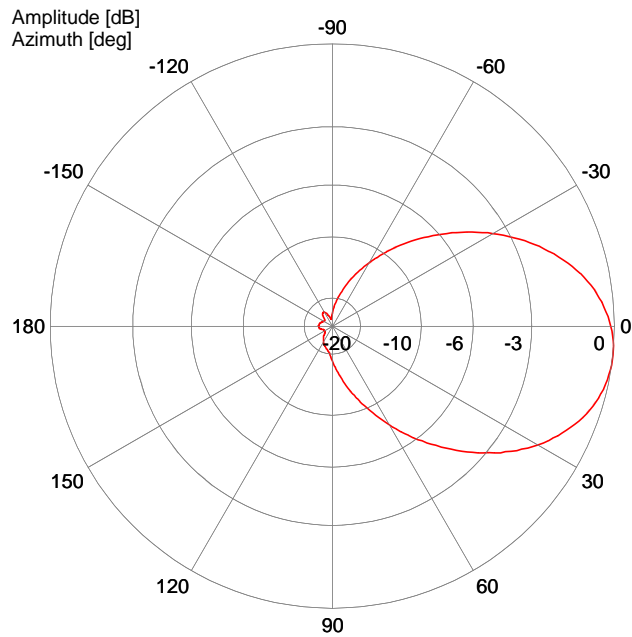
Article-No.: 84078980

Lot-No.: 4276

Port: left slant

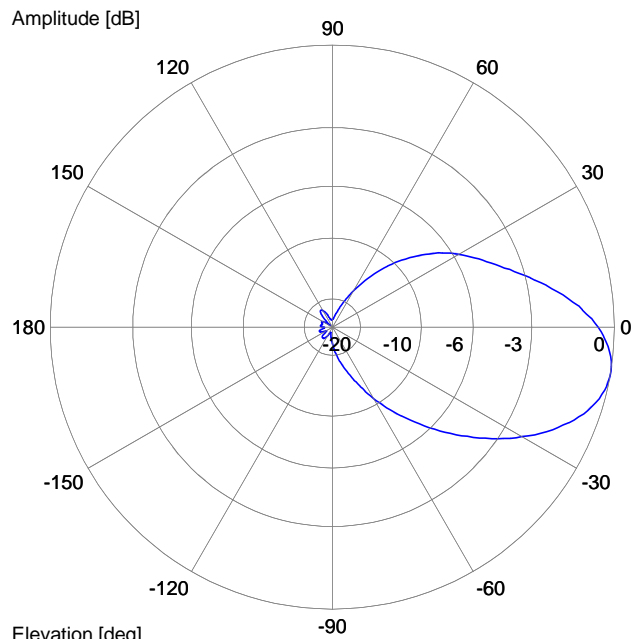
Frequency: 5750 MHz

Radiation Pattern



— Horizontal-Plane: Copolar

Radiation Pattern



— Vertical-Plane: Copolar



# SPA 5600/70/9/0/DS

Type: 1356.17.0076

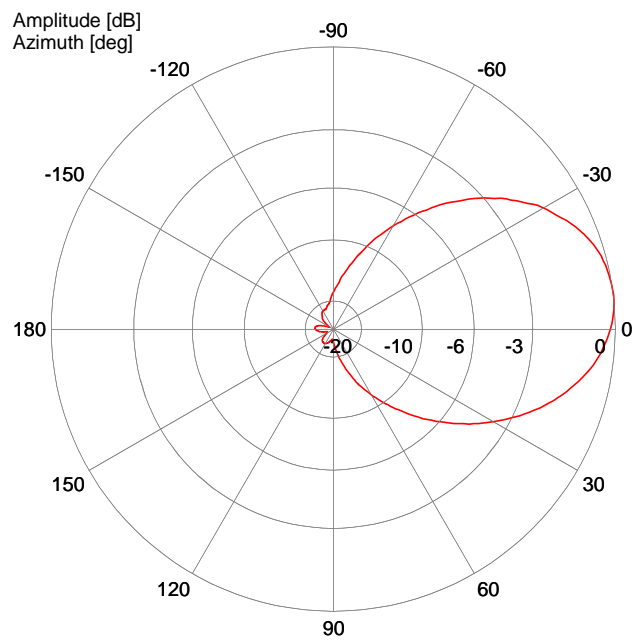
Article-No.: 84078980

Lot-No.: 4276

Port: right slant

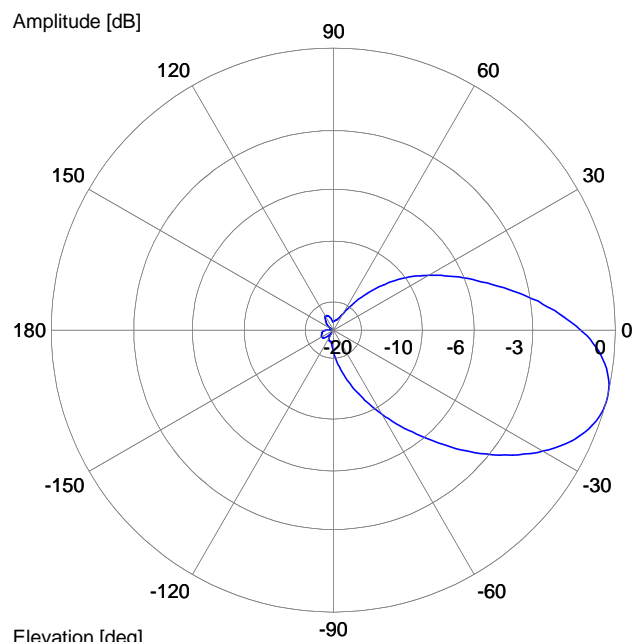
Frequency: 5750 MHz

Radiation Pattern



— Horizontal-Plane: Copolar

Radiation Pattern



— Vertical-Plane: Copolar



# SPA 5600/70/9/0/DS

Type: 1356.17.0076

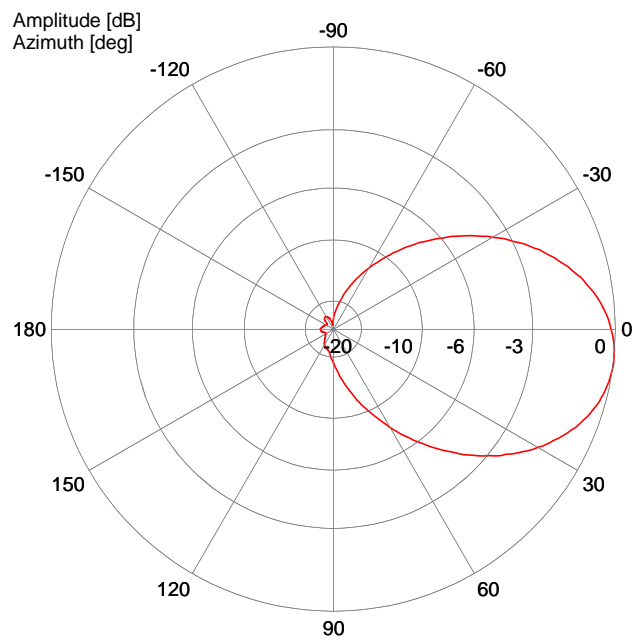
Article-No.: 84078980

Lot-No.: 4276

Port: left slant

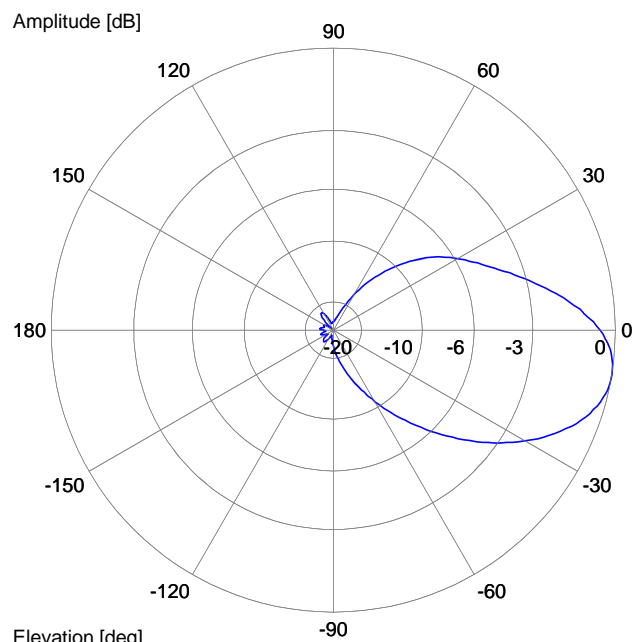
Frequency: 5800 MHz

Radiation Pattern



— Horizontal-Plane: Copolar

Radiation Pattern



— Vertical-Plane: Copolar



# SPA 5600/70/9/0/DS

Type: 1356.17.0076

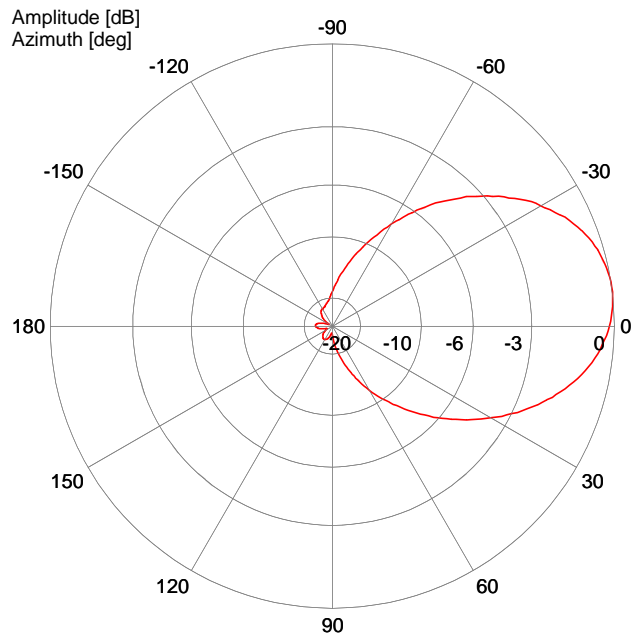
Article-No.: 84078980

Lot-No.: 4276

Port: right slant

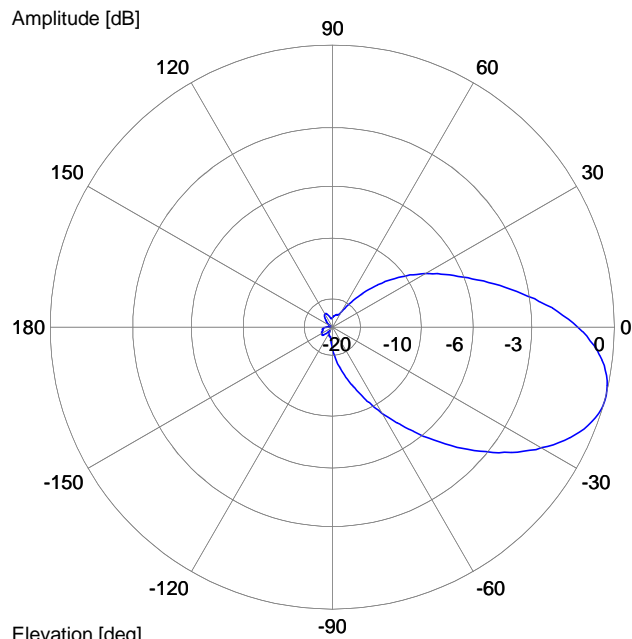
Frequency: 5800 MHz

Radiation Pattern



— Horizontal-Plane: Copolar

Radiation Pattern



— Vertical-Plane: Copolar



# SPA 5600/70/9/0/DS

Type: 1356.17.0076

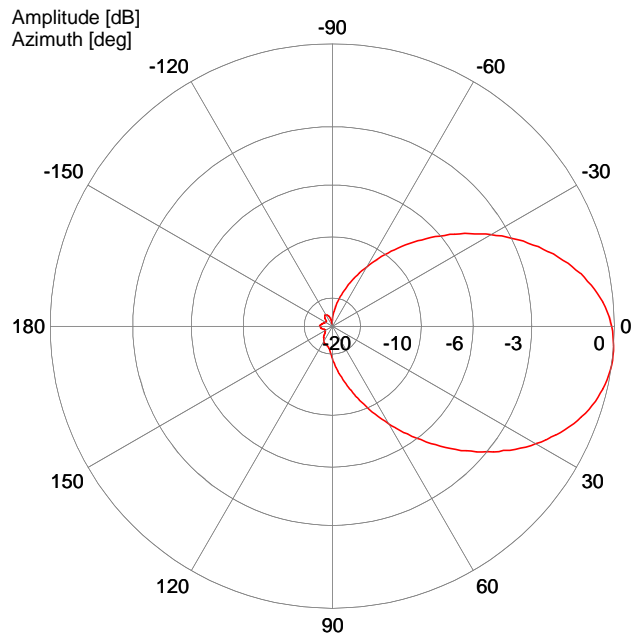
Article-No.: 84078980

Lot-No.: 4276

Port: left slant

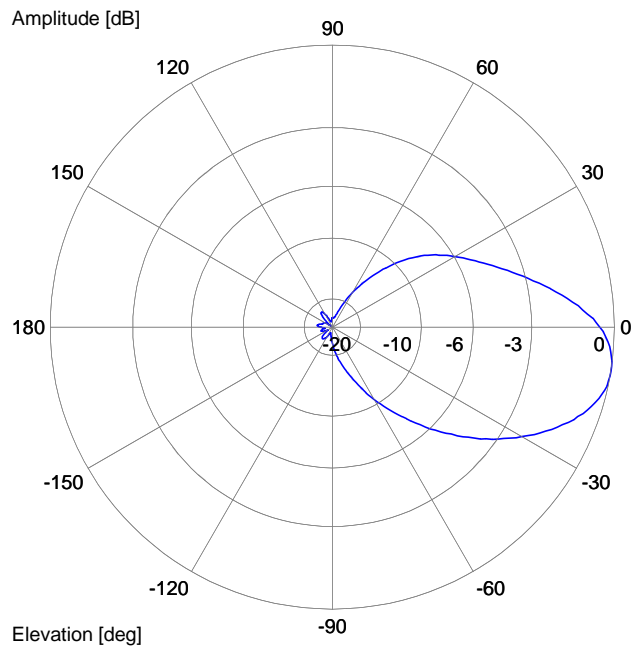
Frequency: 5850 MHz

Radiation Pattern



— Horizontal-Plane: Copolar

Radiation Pattern



— Vertical-Plane: Copolar





# SPA 5600/70/9/0/DS

Type: 1356.17.0076

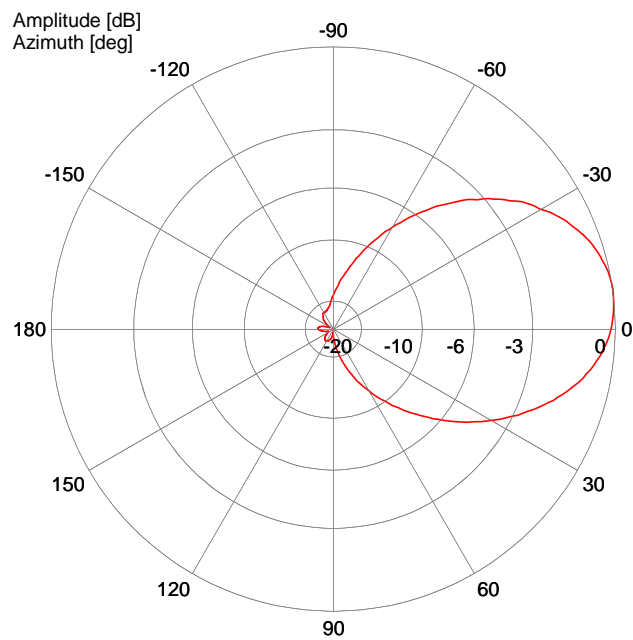
Article-No.: 84078980

Lot-No.: 4276

Port: right slant

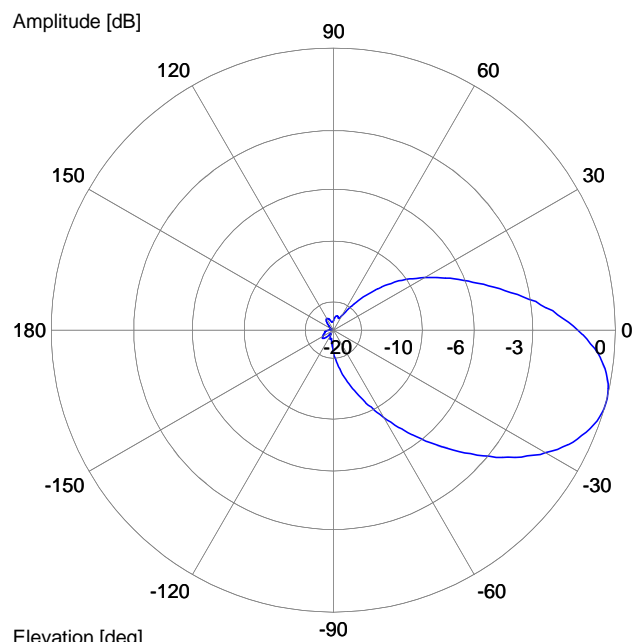
Frequency: 5850 MHz

Radiation Pattern



— Horizontal-Plane: Copolar

Radiation Pattern



— Vertical-Plane: Copolar



# SPA 5600/70/9/0/DS

Type: 1356.17.0076

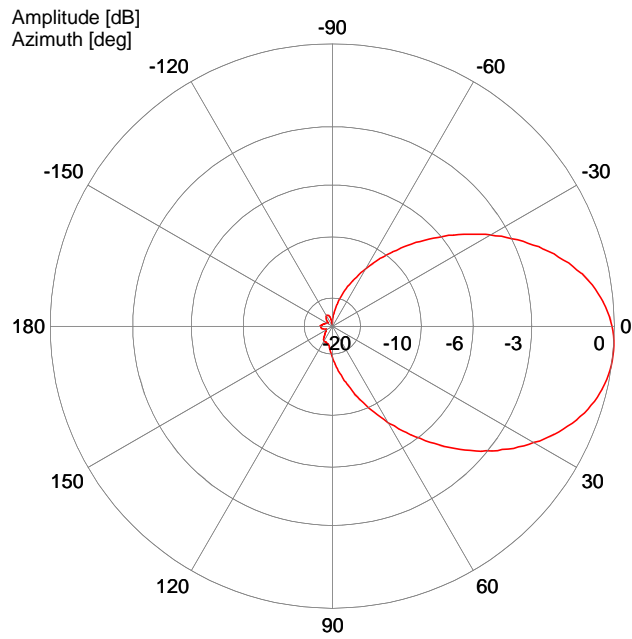
Article-No.: 84078980

Lot-No.: 4276

Port: left slant

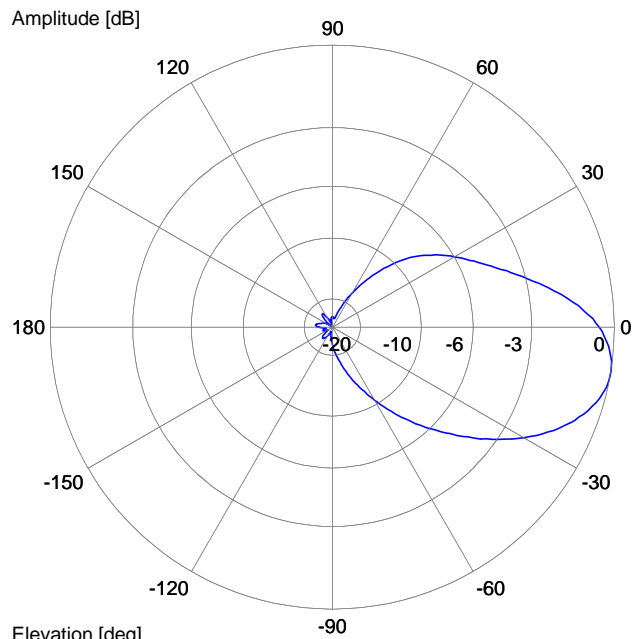
Frequency: 5900 MHz

Radiation Pattern



— Horizontal-Plane: Copolar

Radiation Pattern



— Vertical-Plane: Copolar



# SPA 5600/70/9/0/DS

Type: 1356.17.0076

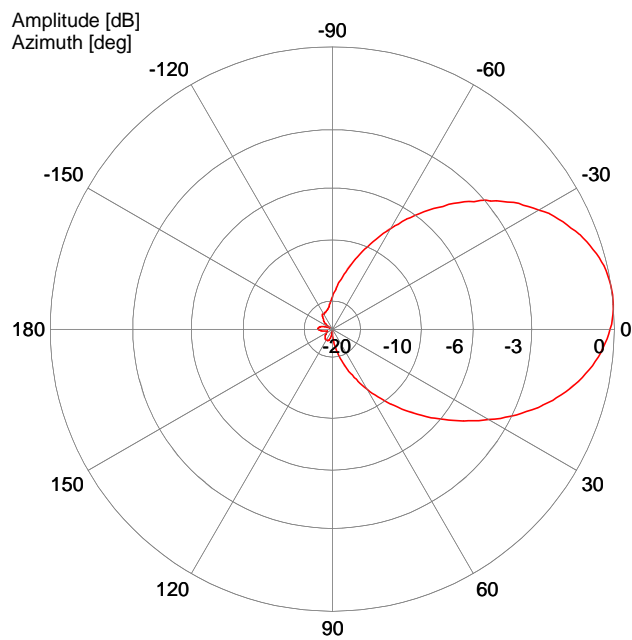
Article-No.: 84078980

Lot-No.: 4276

Port: right slant

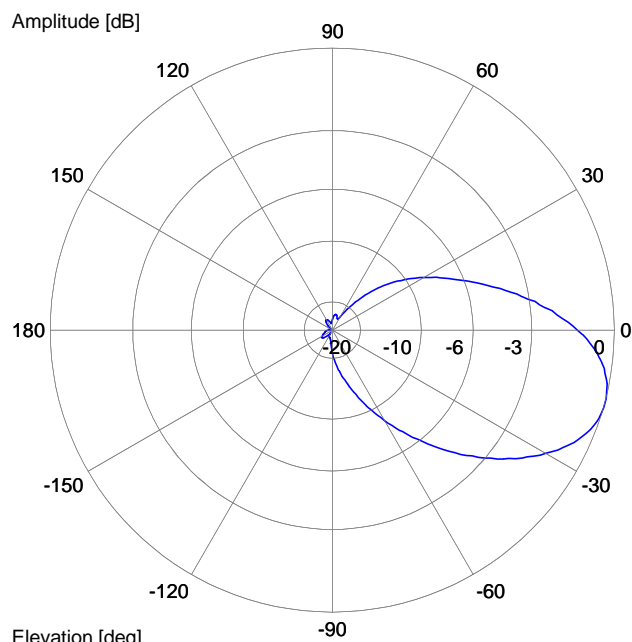
Frequency: 5900 MHz

Radiation Pattern



— Horizontal-Plane: Copolar

Radiation Pattern



— Vertical-Plane: Copolar



# SPA 5600/70/9/0/DS

Type: 1356.17.0076

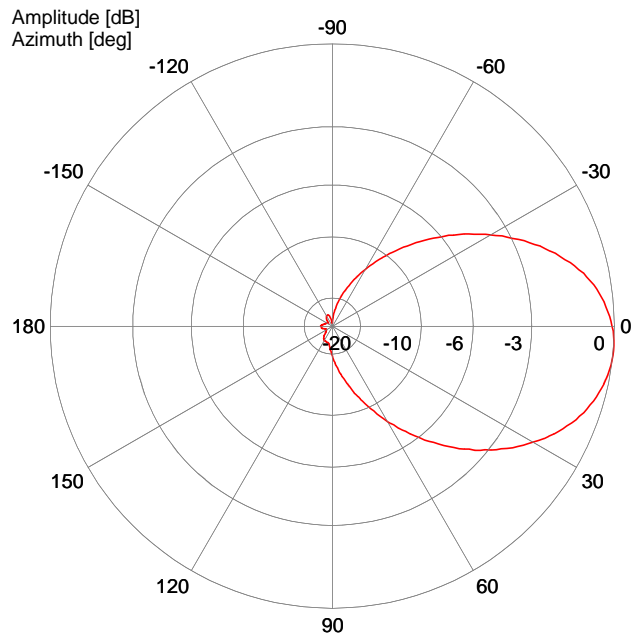
Article-No.: 84078980

Lot-No.: 4276

Port: left slant

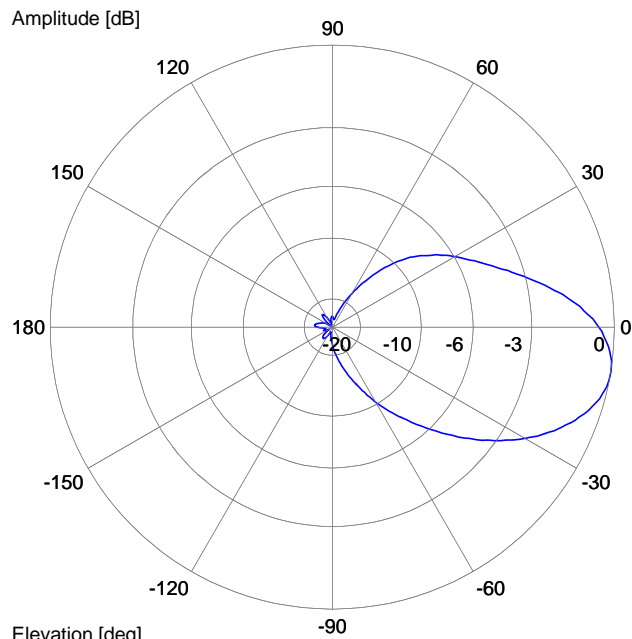
Frequency: 5925 MHz

Radiation Pattern



— Horizontal-Plane: Copolar

Radiation Pattern



— Vertical-Plane: Copolar



# SPA 5600/70/9/0/DS

Type: 1356.17.0076

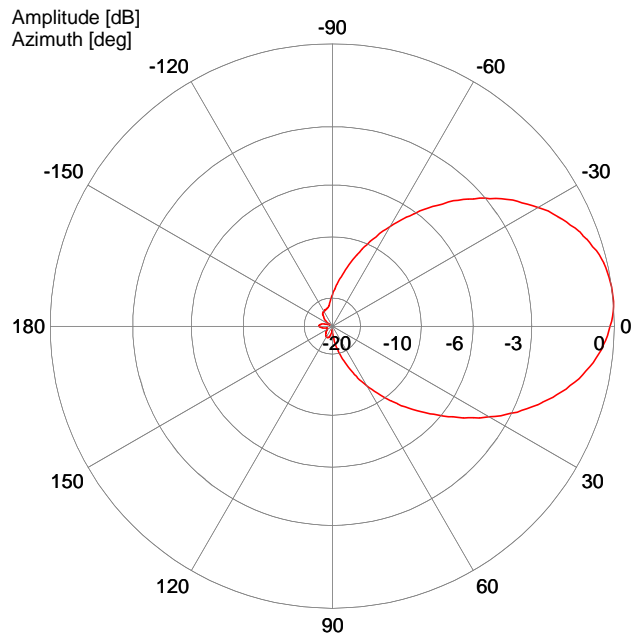
Article-No.: 84078980

Lot-No.: 4276

Port: right slant

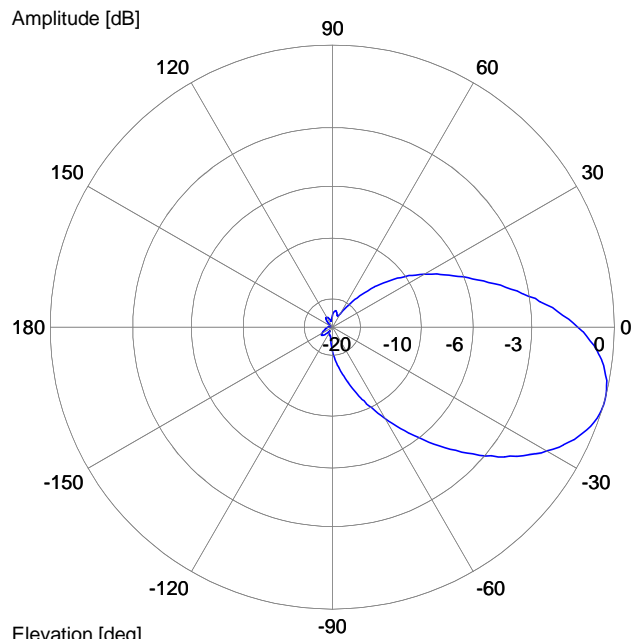
Frequency: 5925 MHz

Radiation Pattern



— Horizontal-Plane: Copolar

Radiation Pattern



— Vertical-Plane: Copolar



# SPA 5600/70/9/0/DS

Type: 1356.17.0076

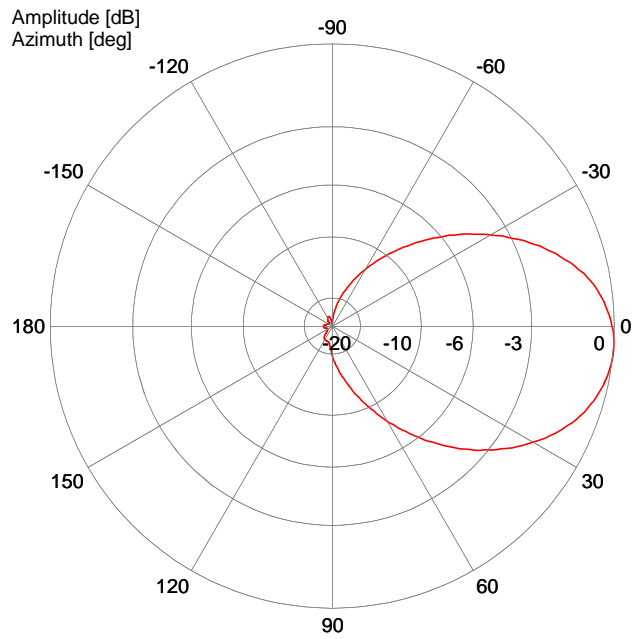
Article-No.: 84078980

Lot-No.: 4276

Port: left slant

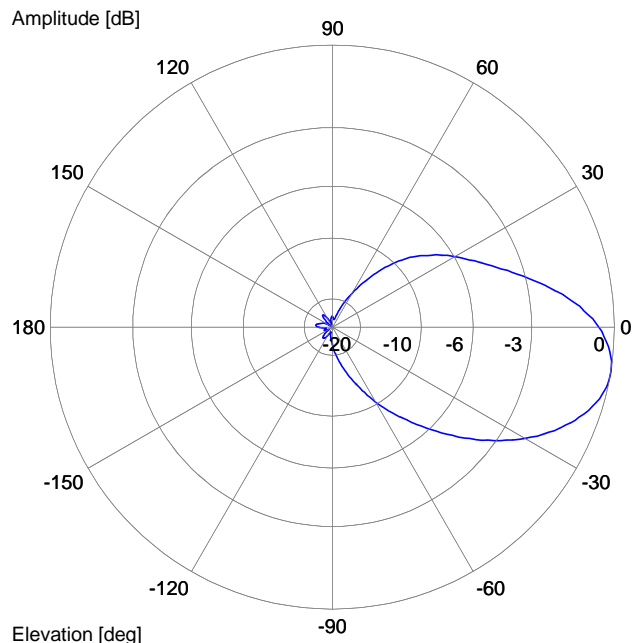
Frequency: 5935 MHz

Radiation Pattern



— Horizontal-Plane: Copolar

Radiation Pattern



— Vertical-Plane: Copolar



# SPA 5600/70/9/0/DS

Type: 1356.17.0076

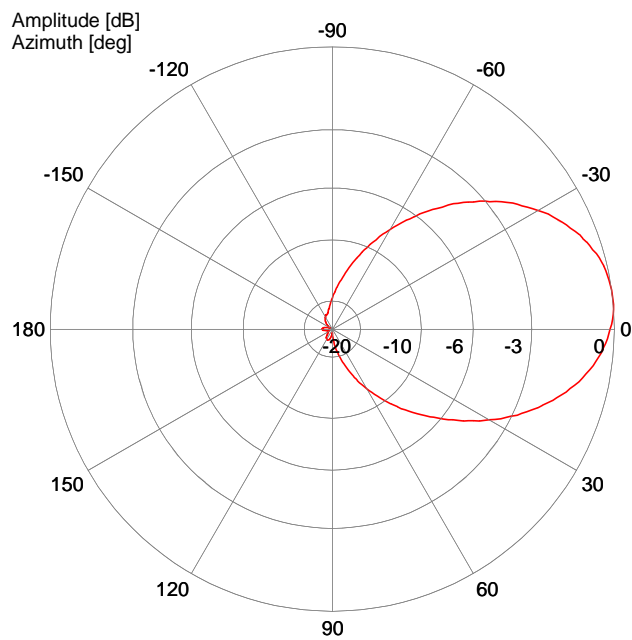
Article-No.: 84078980

Lot-No.: 4276

Port: right slant

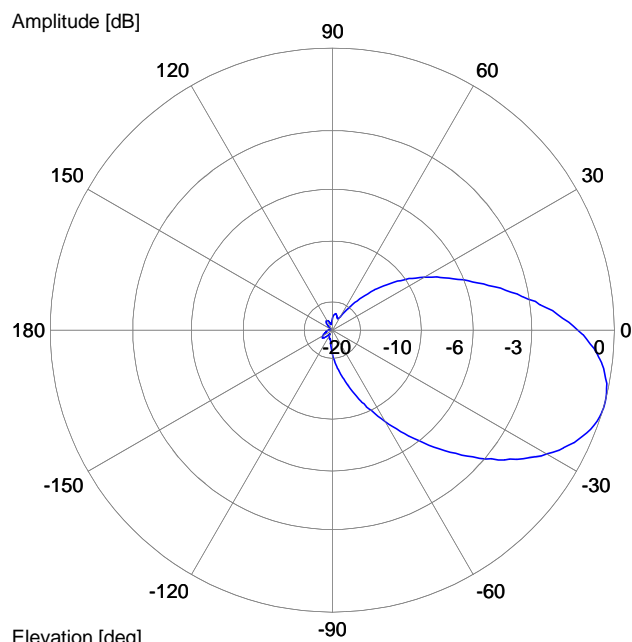
Frequency: 5935 MHz

Radiation Pattern



— Horizontal-Plane: Copolar

Radiation Pattern



— Vertical-Plane: Copolar



# SPA 5600/70/9/0/DS

Type: 1356.17.0076

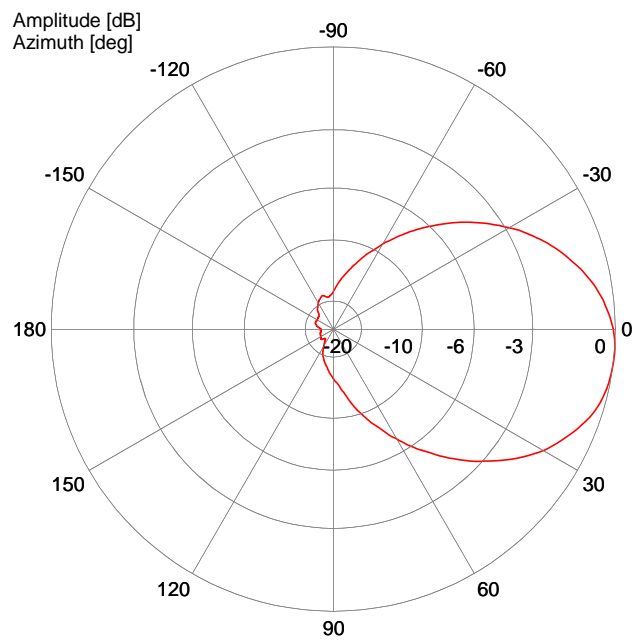
Article-No.: 84078980

Lot-No.: 4276

Port: left slant

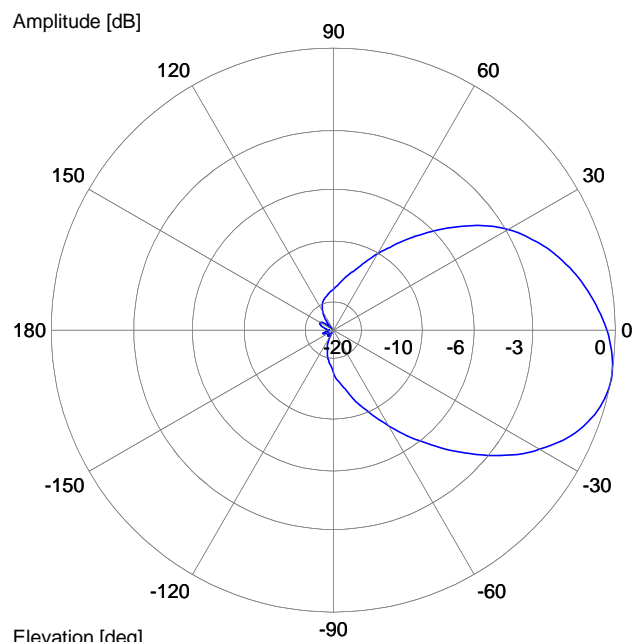
Frequency: 5150 MHz

Radiation Pattern



— Horizontal-Plane: Copolar

Radiation Pattern



— Vertical-Plane: Copolar





# SPA 5600/70/9/0/DS

Type: 1356.17.0076

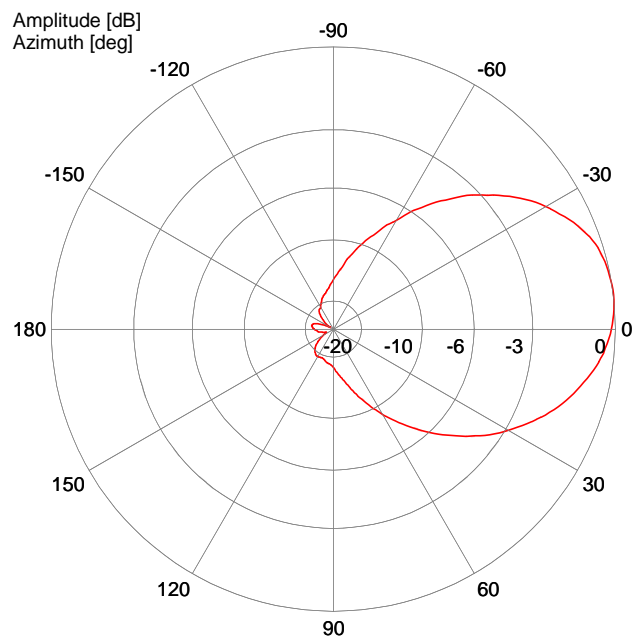
Article-No.: 84078980

Lot-No.: 4276

Port: right slant

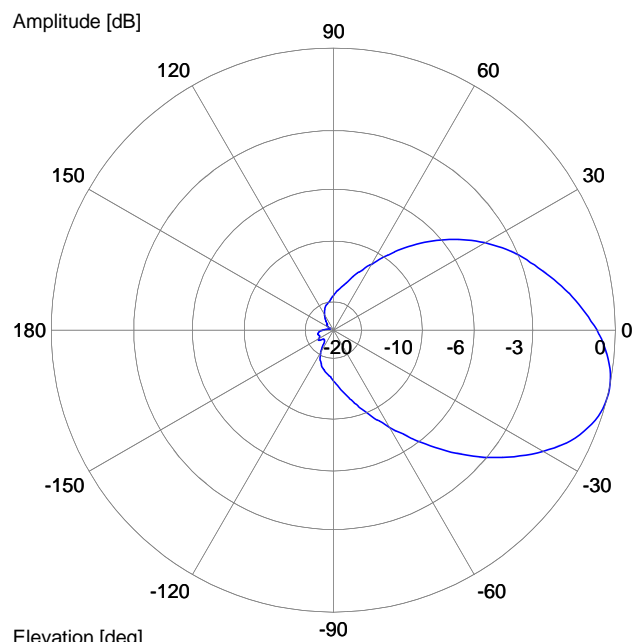
Frequency: 5150 MHz

Radiation Pattern



— Horizontal-Plane: Copolar

Radiation Pattern



— Vertical-Plane: Copolar



# SPA 5600/70/9/0/DS

Type: 1356.17.0076

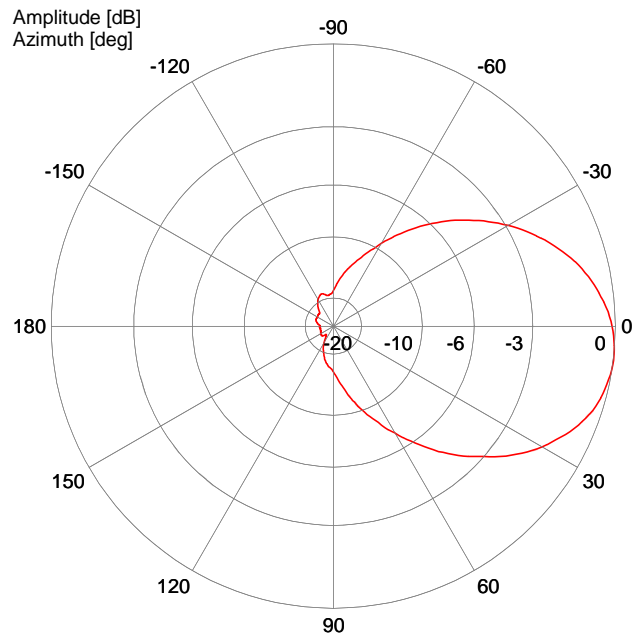
Article-No.: 84078980

Lot-No.: 4276

Port: left slant

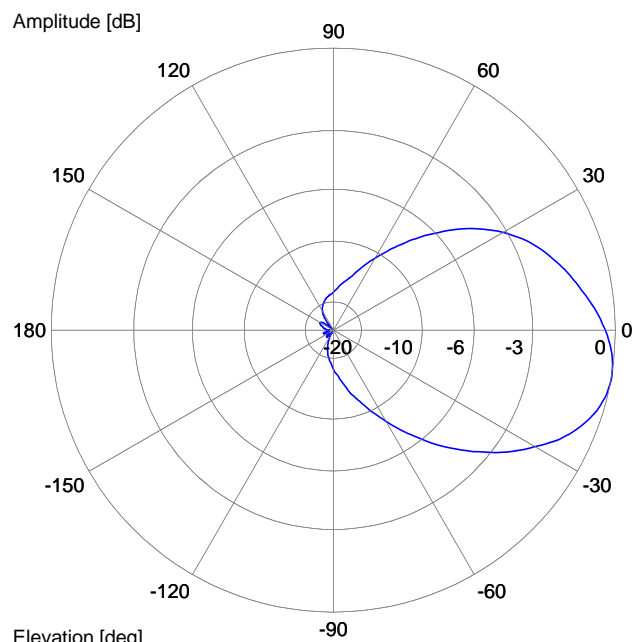
Frequency: 5200 MHz

Radiation Pattern



— Horizontal-Plane: Copolar

Radiation Pattern



— Vertical-Plane: Copolar



# SPA 5600/70/9/0/DS

Type: 1356.17.0076

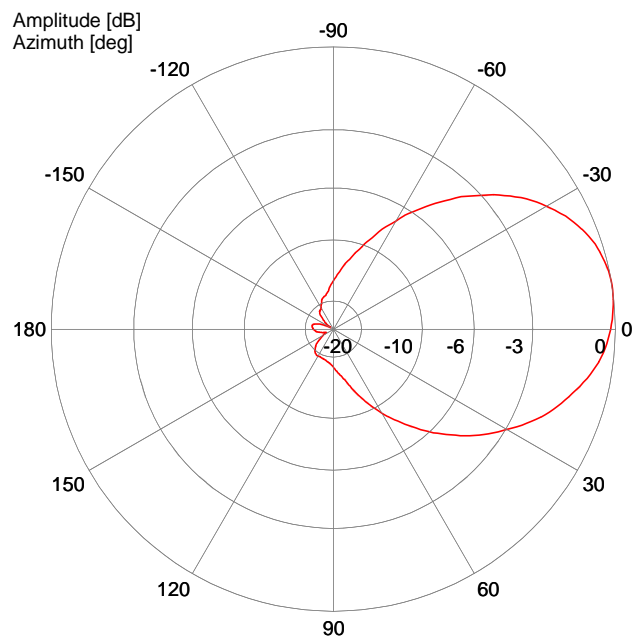
Article-No.: 84078980

Lot-No.: 4276

Port: right slant

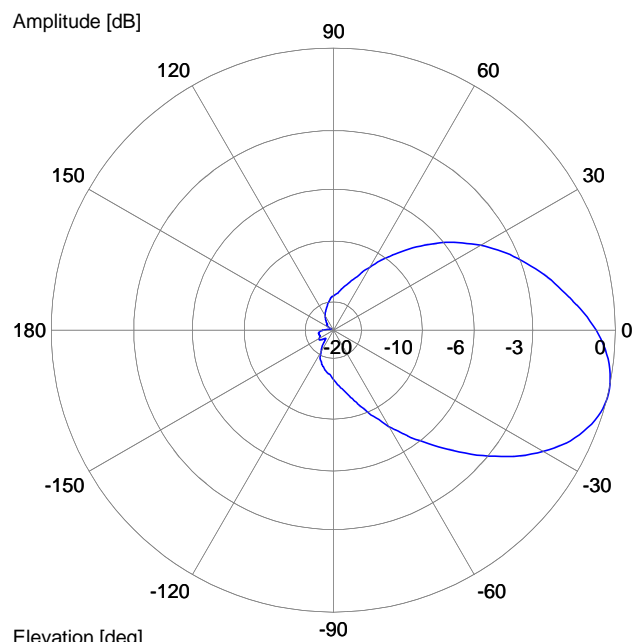
Frequency: 5200 MHz

Radiation Pattern



— Horizontal-Plane: Copolar

Radiation Pattern



— Vertical-Plane: Copolar



# SPA 5600/70/9/0/DS

Type: 1356.17.0076

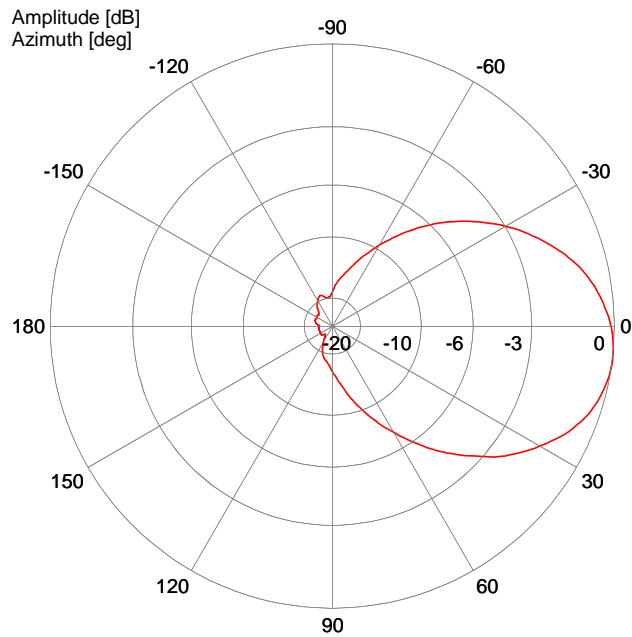
Article-No.: 84078980

Lot-No.: 4276

Port: left slant

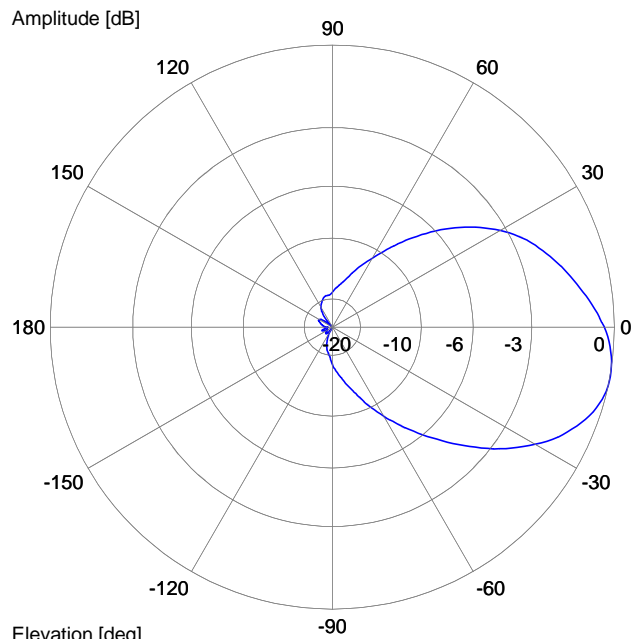
Frequency: 5250 MHz

Radiation Pattern



— Horizontal-Plane: Copolar

Radiation Pattern



— Vertical-Plane: Copolar