

SENCITY® Omni-S Thimble 1399.17.0224

Description

Broadband omnidirectional WiFi & Cellular antenna from 1710 MHz up to 7125 MHz
 WiFi-4, WiFi-5 , WiFi-6, WiFi-6E
 4G and 5G frequencies band
 Small & robust outdoor stick antenna IP66 / IP68 / IP69K
 Direct mount on N type connector of wireless access points or clients



Product Configuration

Technical Data

Electrical Data

	Band 1	Band 2	Band 3	Band 4
Frequency (MHz)	1710 - 2000	2000 - 2700	2700 - 4200	4900 - 5150
VSWR	2	2	2	2
Impedance (Ohm)	50	50	50	50
Gain (dBi)	1.5	2	1.5	2.5
3dB beamwidth (h) (°)	360	360	360	360
Composite power max (W)	200	160	120	120
Ambient temperature (°C)	25	25	25	25

	Band 5	Band 6
Frequency (MHz)	5150 - 5925	5925 - 7125
VSWR	2	2
Impedance (Ohm)	50	50
Gain (dBi)	2.5	3
3dB beamwidth (h) (°)	360	360
Composite power max (W)	120	120
Ambient temperature (°C)	25	25

Ports

	Port 1
Connector	N, plug (male)
Polarization	vertical
DC grounded	No

General Data

Mechanical Data

Dimensions (mm) 55 x 22 (Height x Diameter)
 Weight (kg) 0.05

Coupling nut torque: nominal 1Nm
 maximum 3Nm

Environmental Data

Environmental conditions	outdoor
Operation temperature (°C)	-40 to 85
Storage temperature (°C)	-40 to 85
Transport temperature (°C)	-40 to 85
IP rating	IP66, IP68
Flammability rating	UL 94-HB
2011/65/EU (RoHS - including 2015/863 and 2017/2102)	compliant
Lead-free soldered	not soldered
WEEE 2012/19/EU	special marking needed
REACH 1907/2006/EC	compliant

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Ingress protection IP66, IP68 & IP69K (EN 60529)

Flammability rating EN 45545 DIN 5510-2

Temperature range (damp heat) EN 60068-2-30, Test Db, Variant 1 (40°C 6 cycles)

Temperature shock EN 60068-2-14, Test N, -45°C/85°C, 1h, 5 cycles

Vibration and shock EN 61373, category 1, class b (for railway carriage)

Material Data

Radome colour	RAL 7043 (dark grey)
Radome material	ASA (acrylic ester-styrene-acrylonitrile)

Related Documents

Painting instruction	DOC-0000256180
Security instruction	DOC-0000278984
Outline drawing	DOU-00248614
3D-model	DOC-0000424893

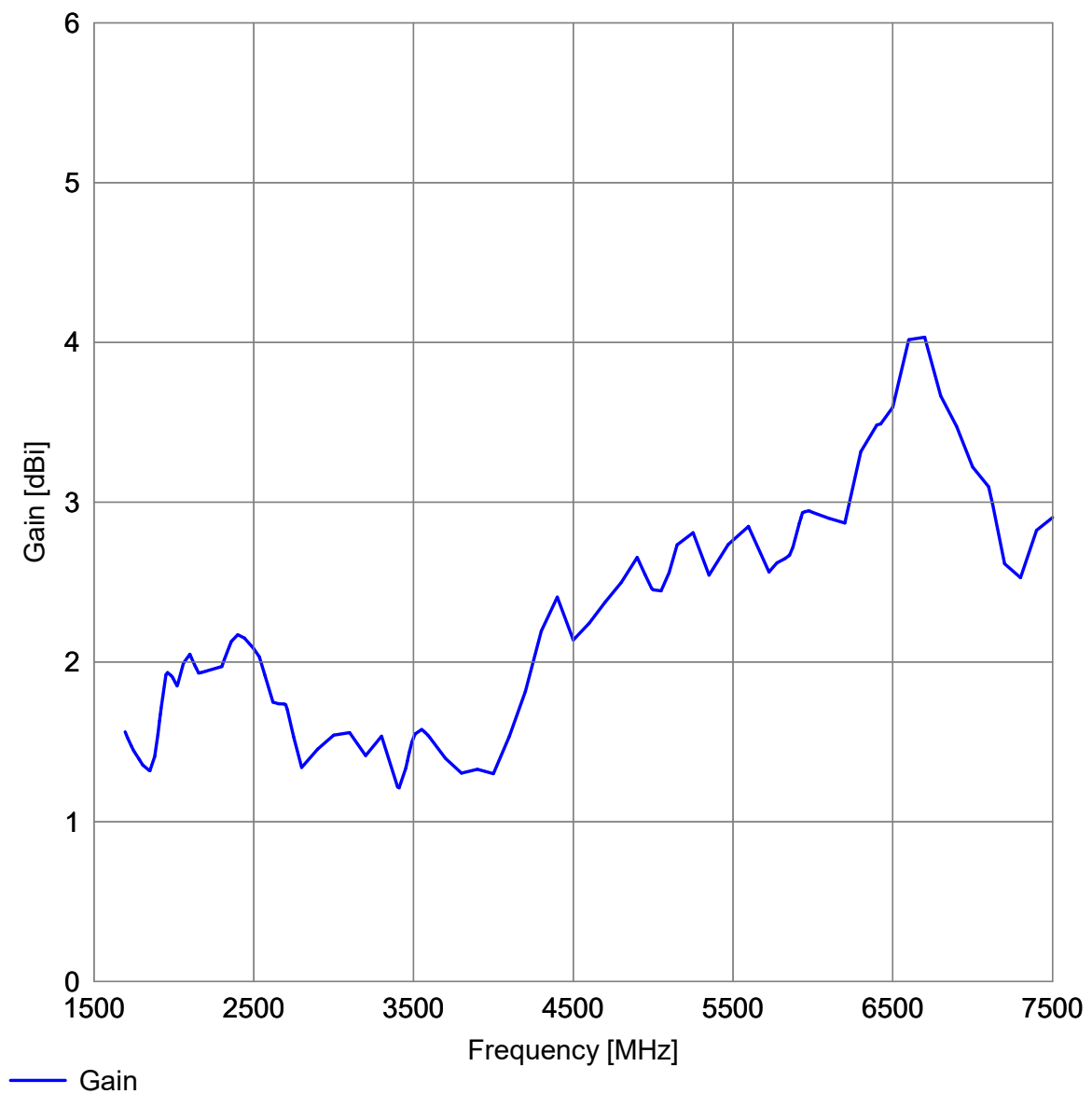
1399.17.0224

Article-No.: 85012283

Lot-No.: 5065

Port: Vertical

Gain



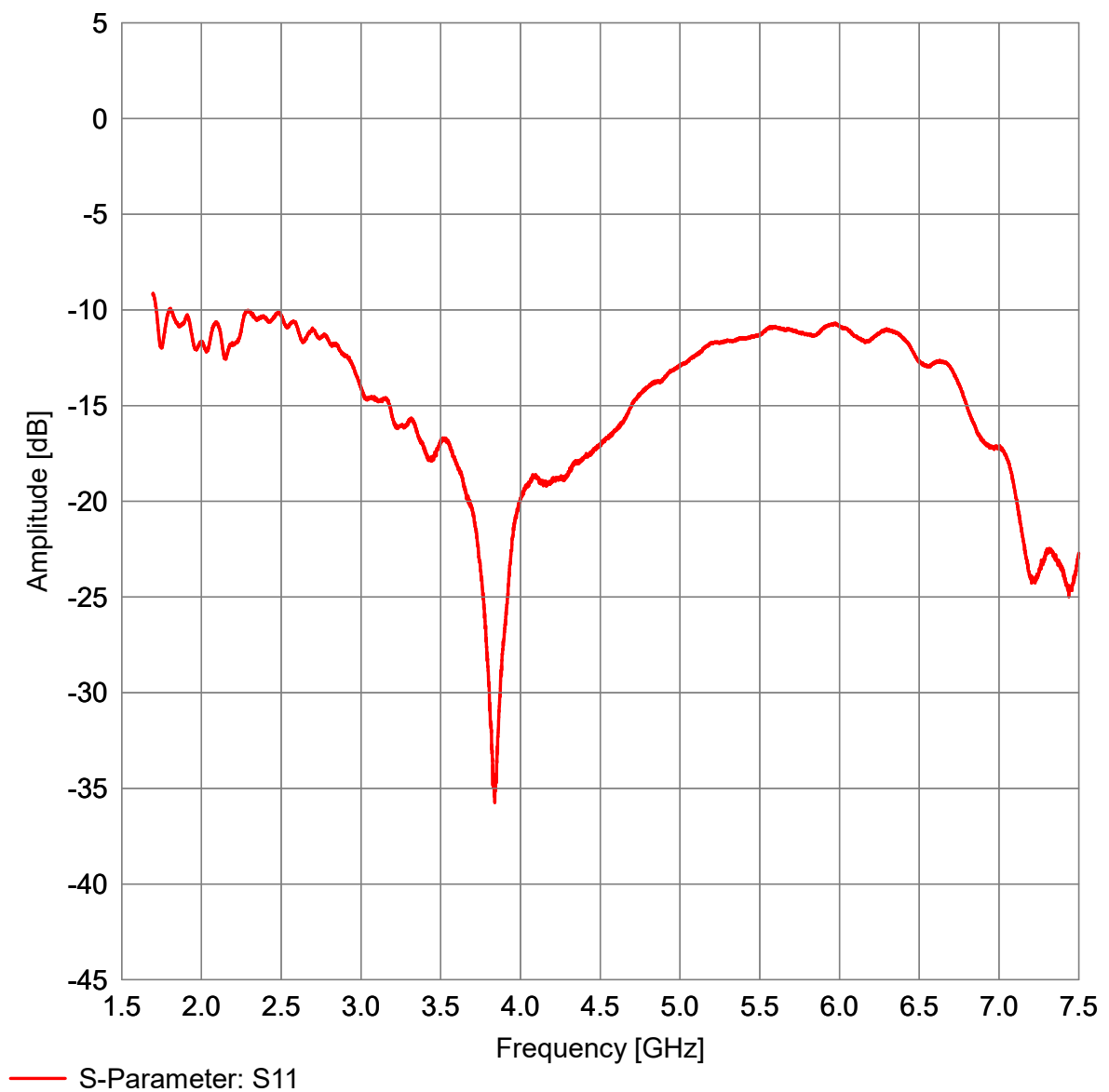
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Article-No.: 85012283

Lot-No.: 5065

Port: Vertical

S-Parameter



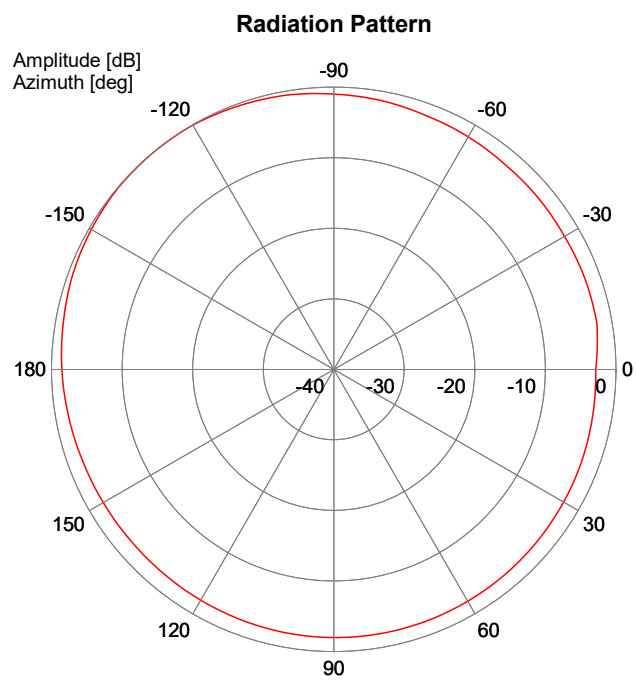
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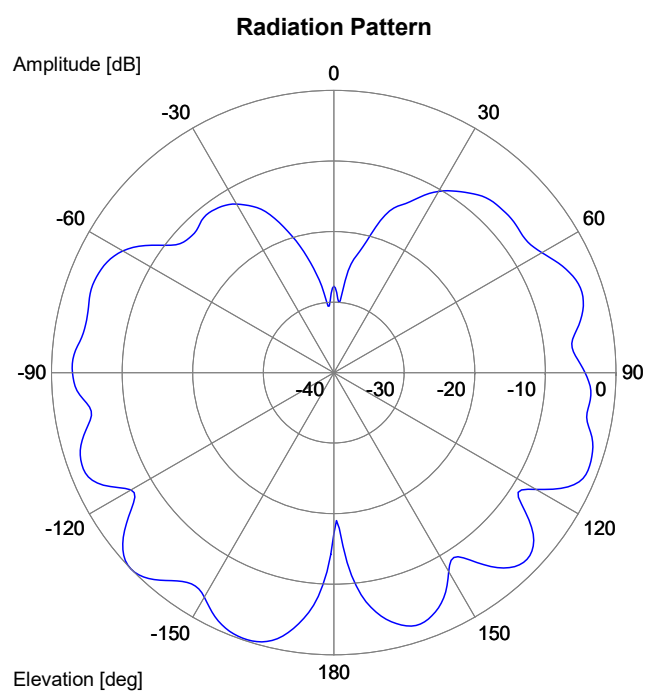
Lot-No.: 5065

Port: Vertical

Frequency: 2400 MHz



— Horizontal-Plane: Copolar



— Vertical-Plane: Copolar

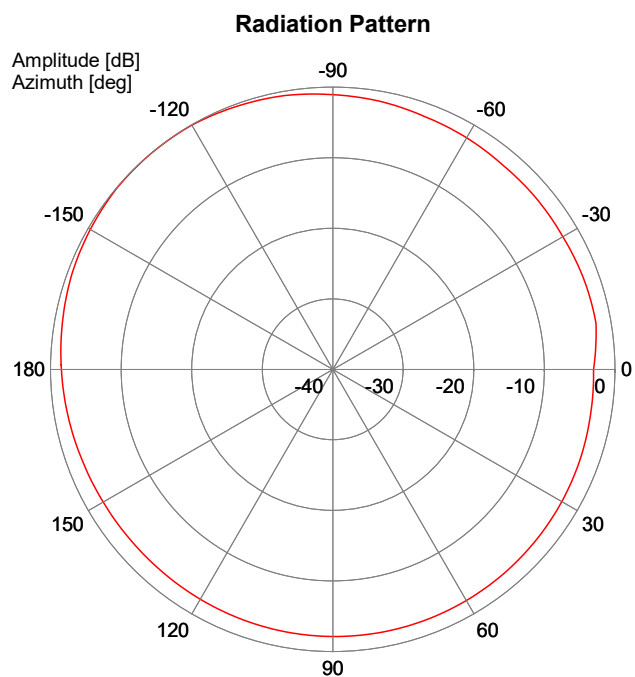
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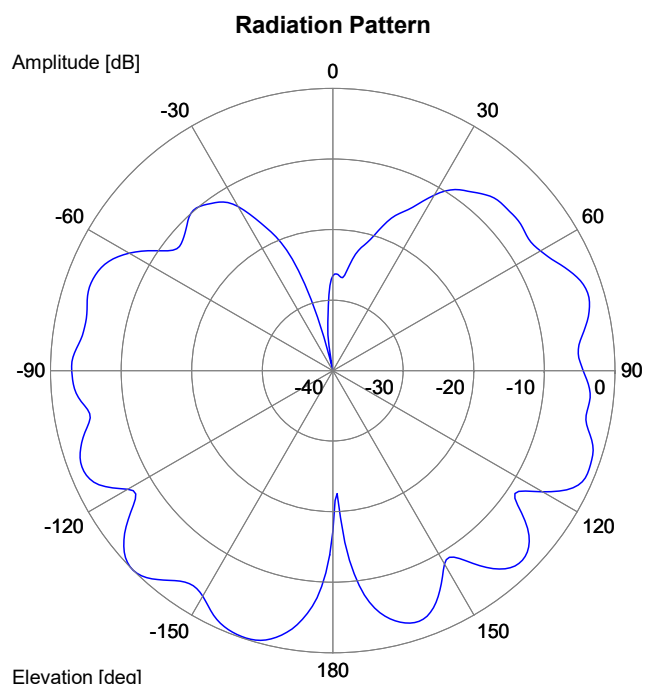
Lot-No.: 5065

Port: Vertical

Frequency: 2442 MHz



— Horizontal-Plane: Copolar



— Vertical-Plane: Copolar

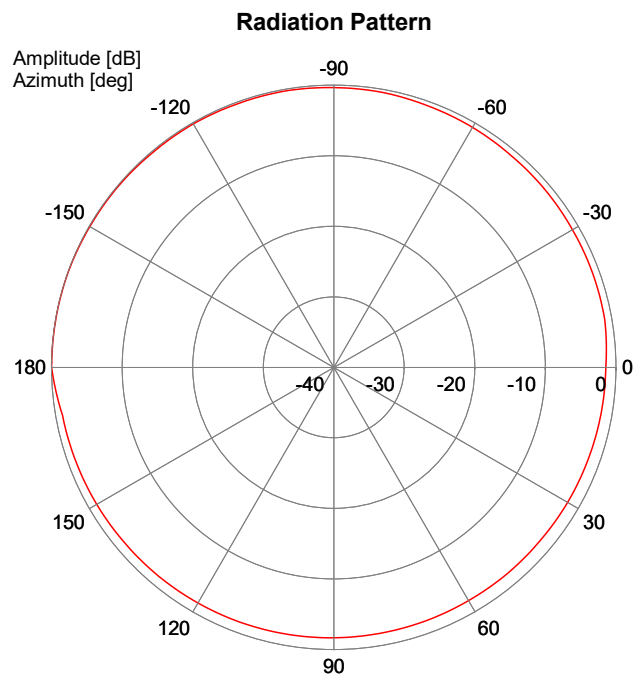
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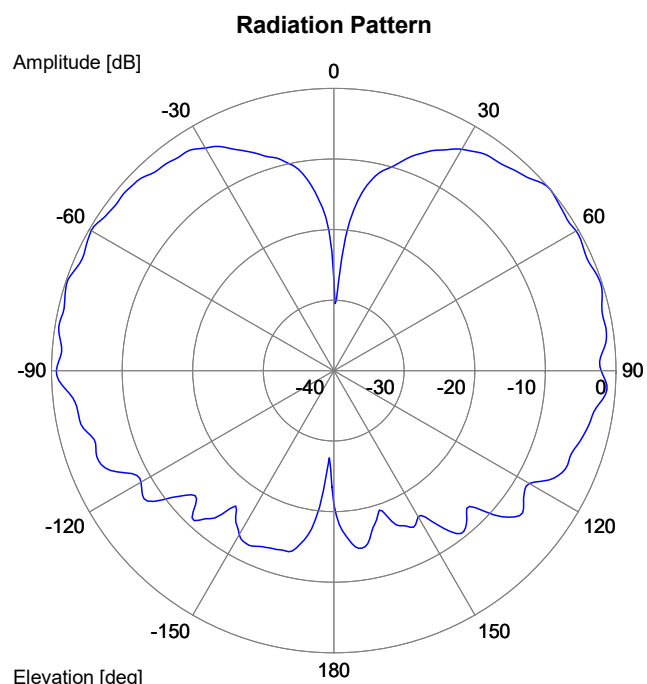
Lot-No.: 5065

Port: Vertical

Frequency: 5100 MHz



— Horizontal-Plane: Copolar



— Vertical-Plane: Copolar

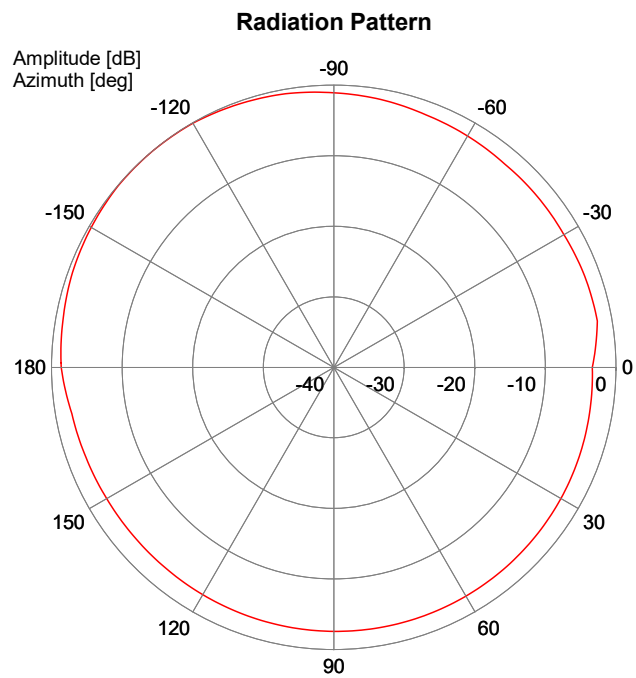
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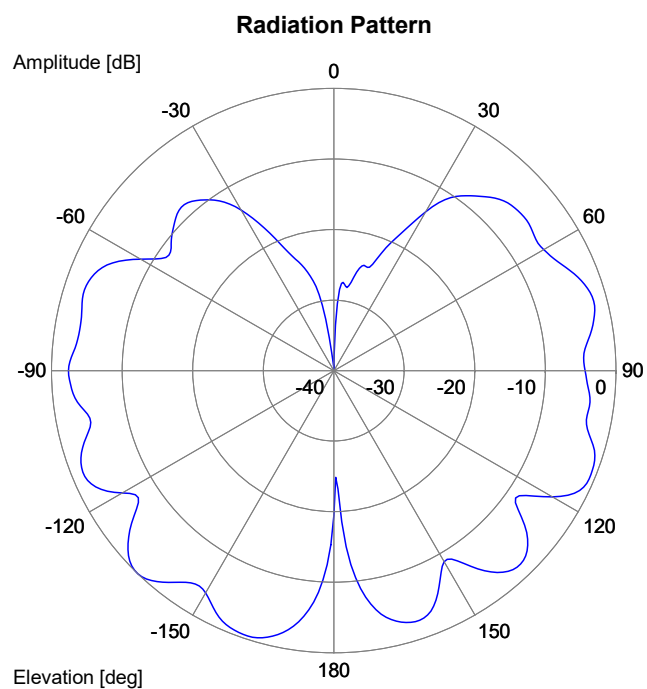
Lot-No.: 5065

Port: Vertical

Frequency: 2484 MHz



— Horizontal-Plane: Copolar



— Vertical-Plane: Copolar

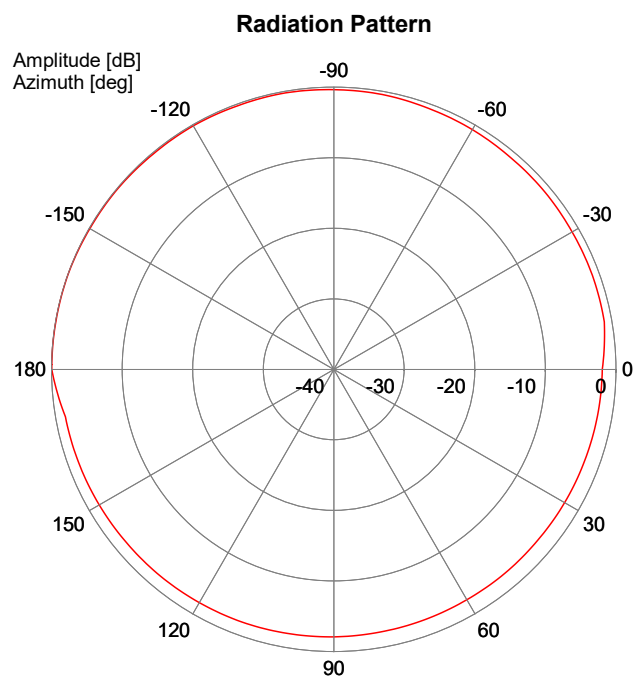
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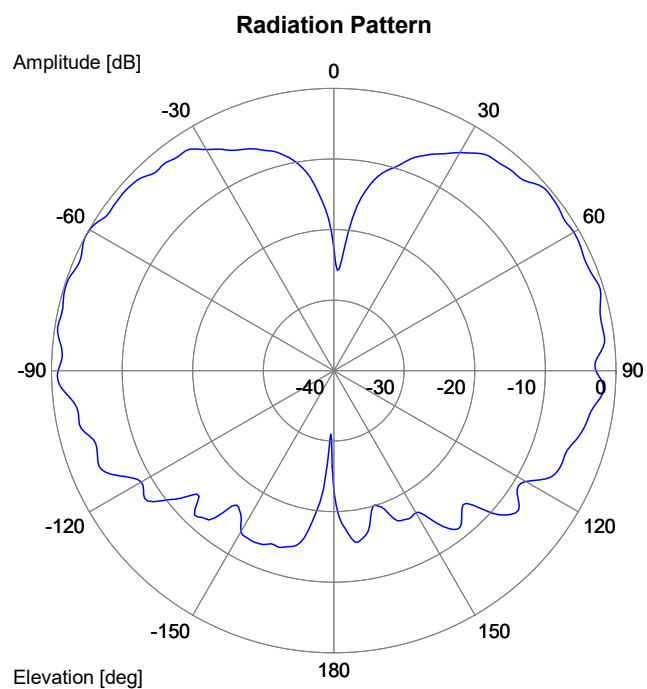
Lot-No.: 5065

Port: Vertical

Frequency: 5150 MHz



— Horizontal-Plane: Copolar



— Vertical-Plane: Copolar

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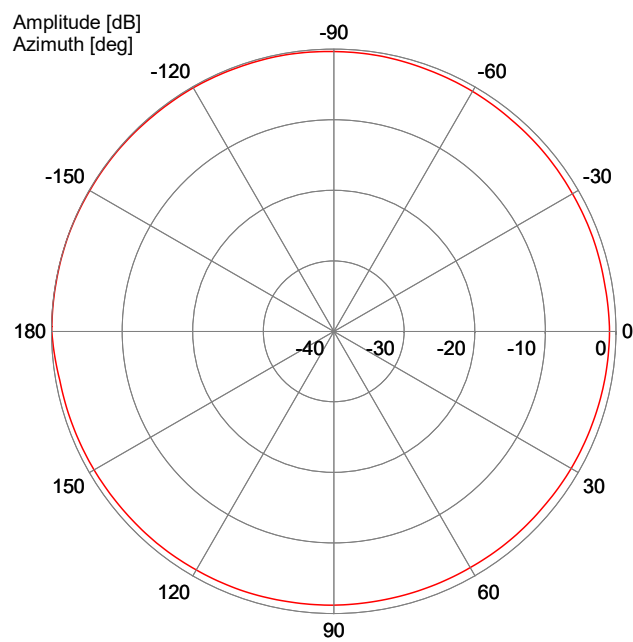
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Lot-No.: 5065

Port: Vertical

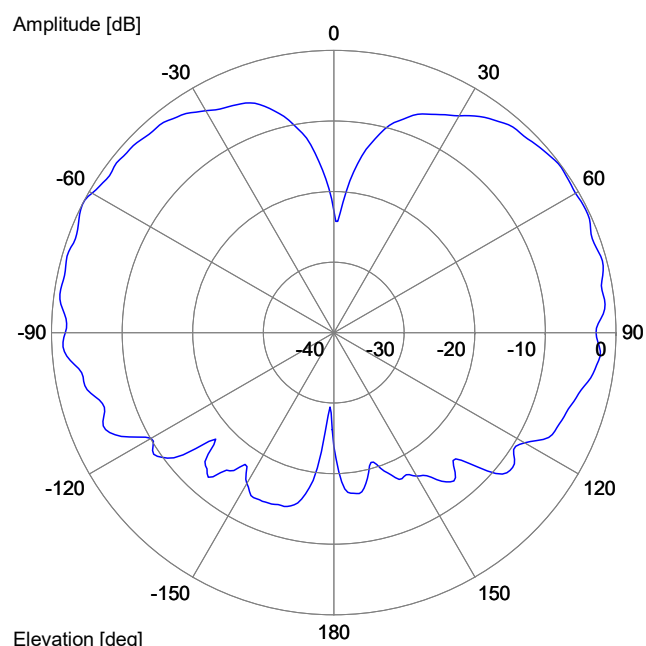
Frequency: 5250 MHz

Radiation Pattern



— Horizontal-Plane: Copolar

Radiation Pattern



— Vertical-Plane: Copolar

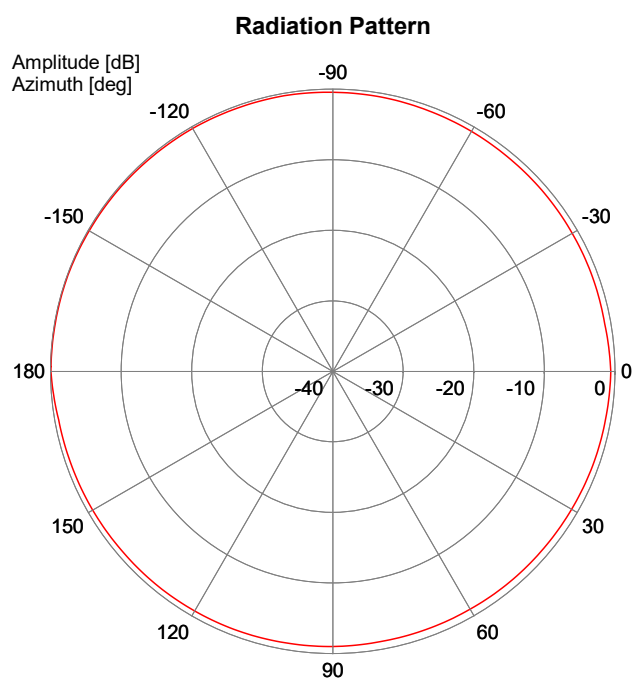
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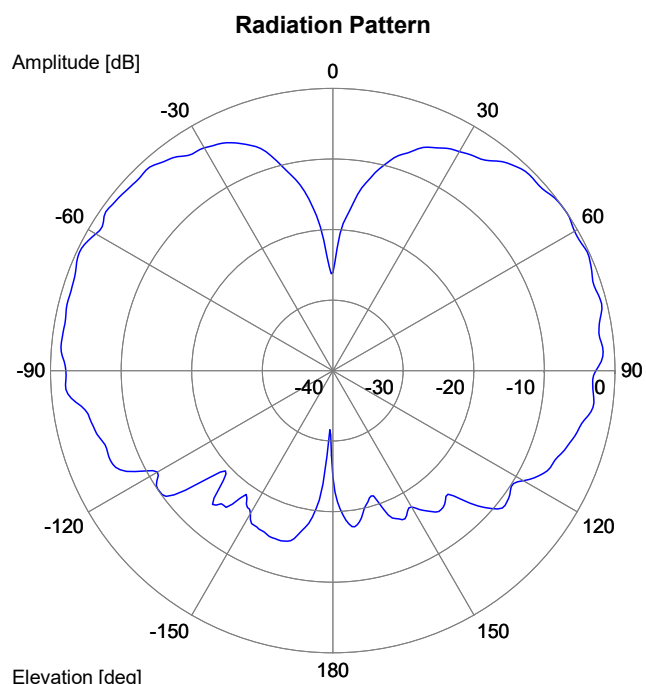
Lot-No.: 5065

Port: Vertical

Frequency: 5350 MHz



— Horizontal-Plane: Copolar



— Vertical-Plane: Copolar

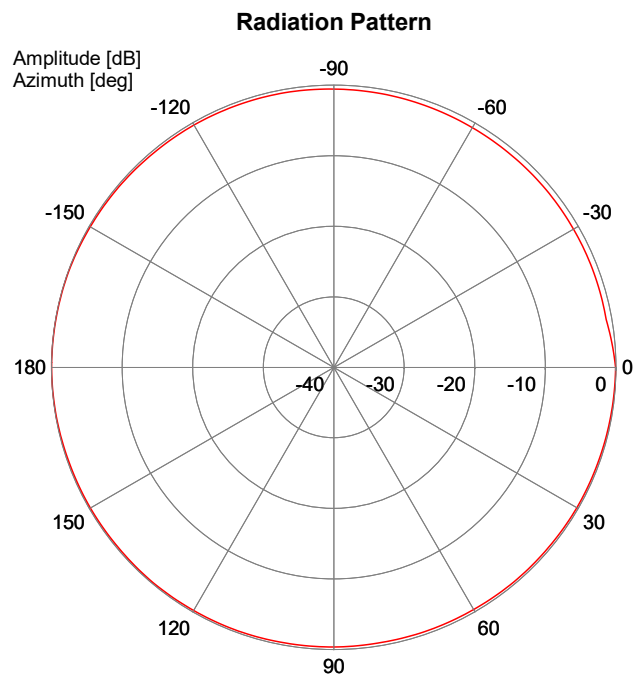
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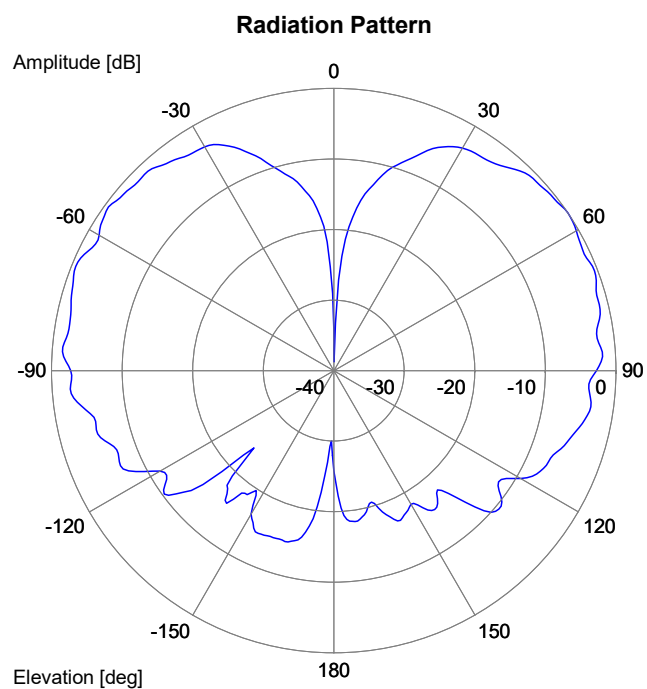
Lot-No.: 5065

Port: Vertical

Frequency: 5470 MHz



— Horizontal-Plane: Copolar



— Vertical-Plane: Copolar

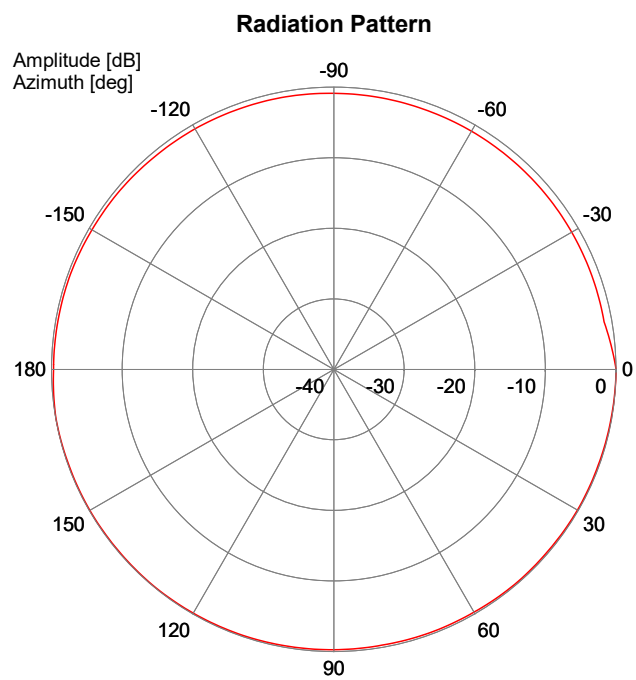
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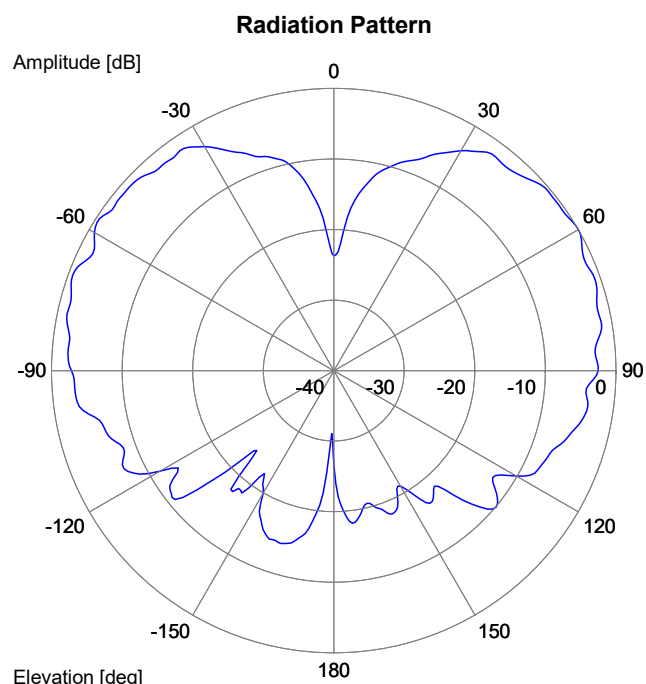
Lot-No.: 5065

Port: Vertical

Frequency: 5597 MHz



— Horizontal-Plane: Copolar



— Vertical-Plane: Copolar

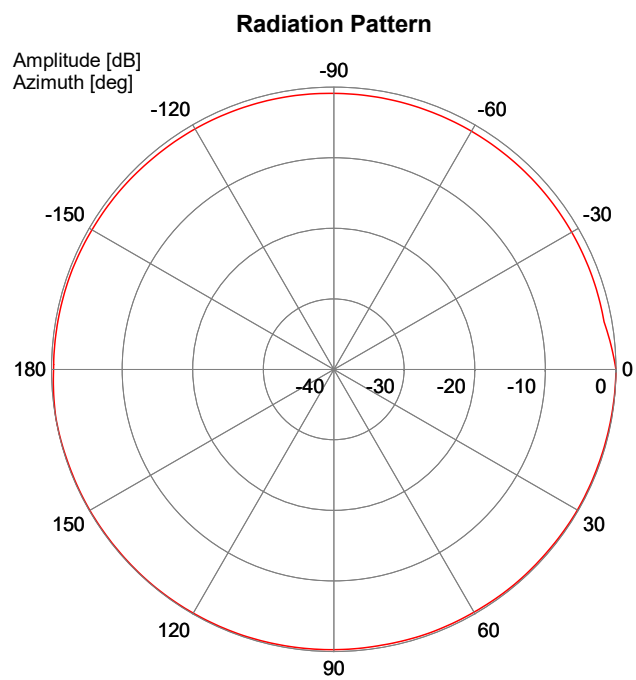
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Article-No.: 85012283

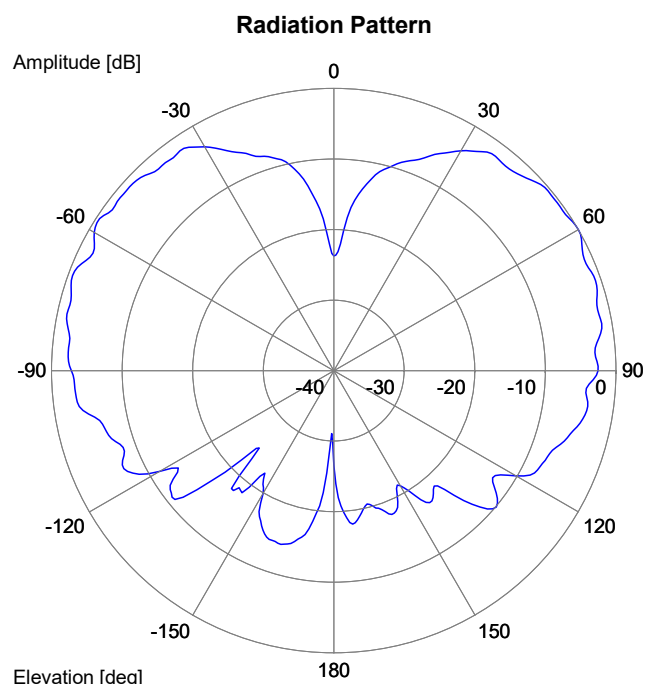
Lot-No.: 5065

Port: Vertical

Frequency: 5600 MHz



— Horizontal-Plane: Copolar



— Vertical-Plane: Copolar

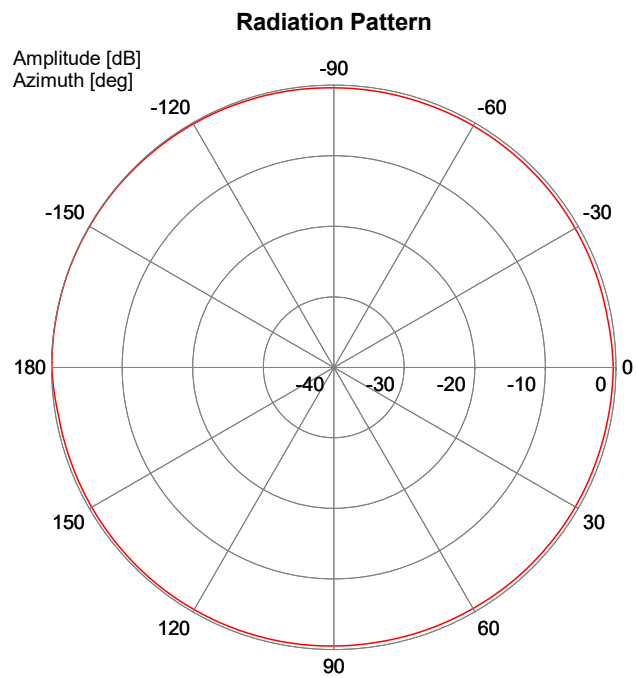
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Article-No.: 85012283

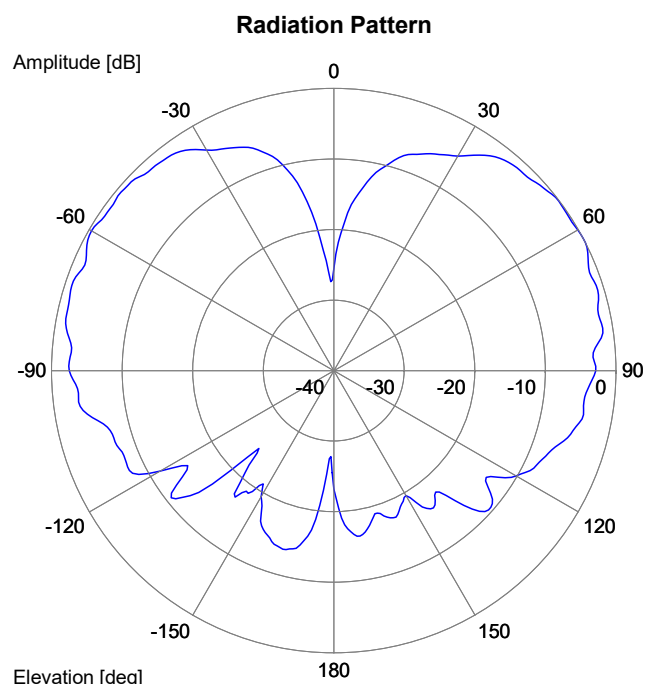
Lot-No.: 5065

Port: Vertical

Frequency: 5725 MHz



— Horizontal-Plane: Copolar



— Vertical-Plane: Copolar

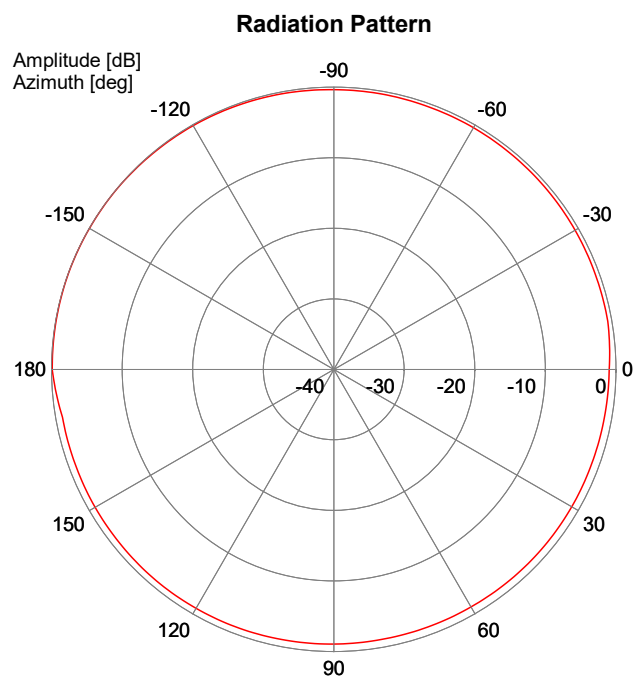
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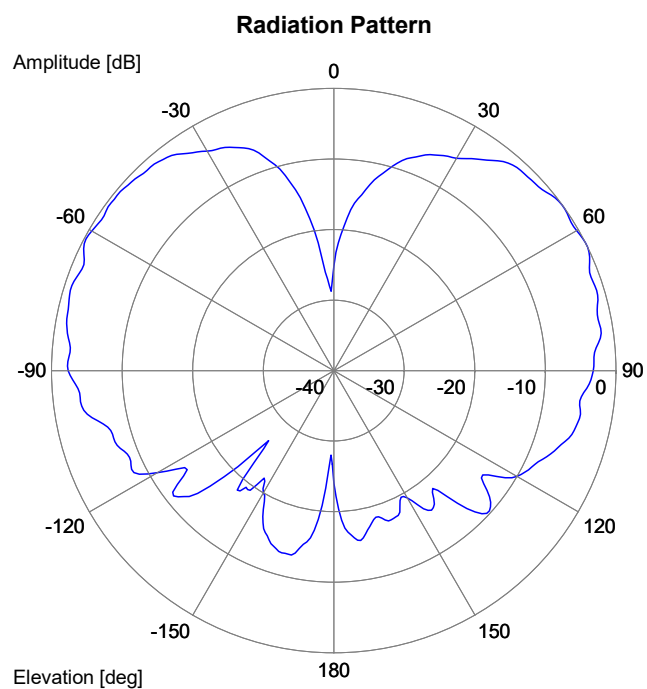
Lot-No.: 5065

Port: Vertical

Frequency: 5775 MHz



— Horizontal-Plane: Copolar



— Vertical-Plane: Copolar

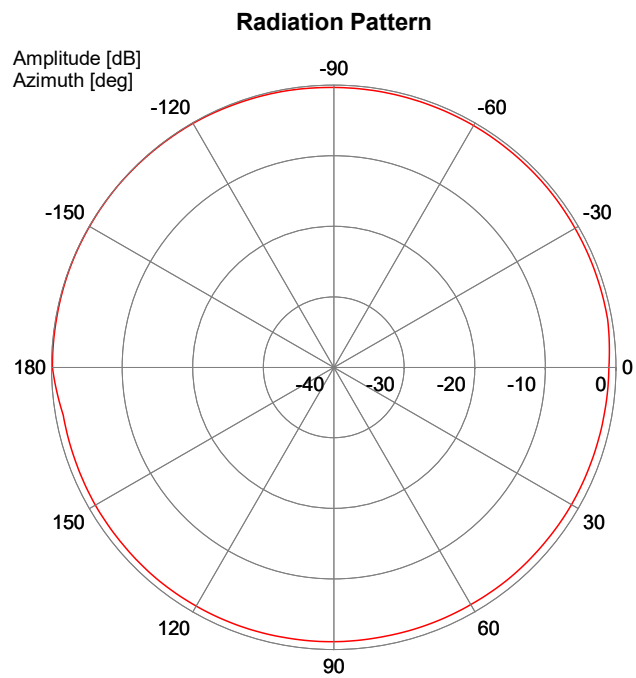
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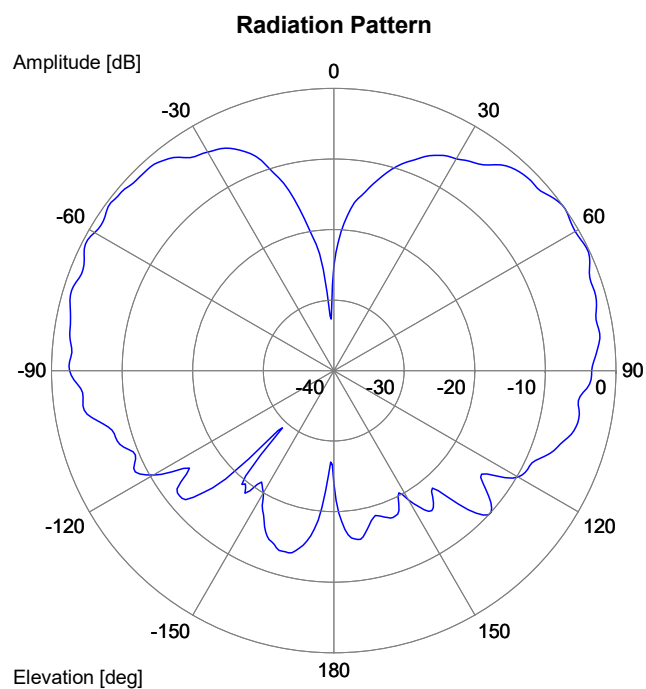
Lot-No.: 5065

Port: Vertical

Frequency: 5825 MHz



— Horizontal-Plane: Copolar



— Vertical-Plane: Copolar

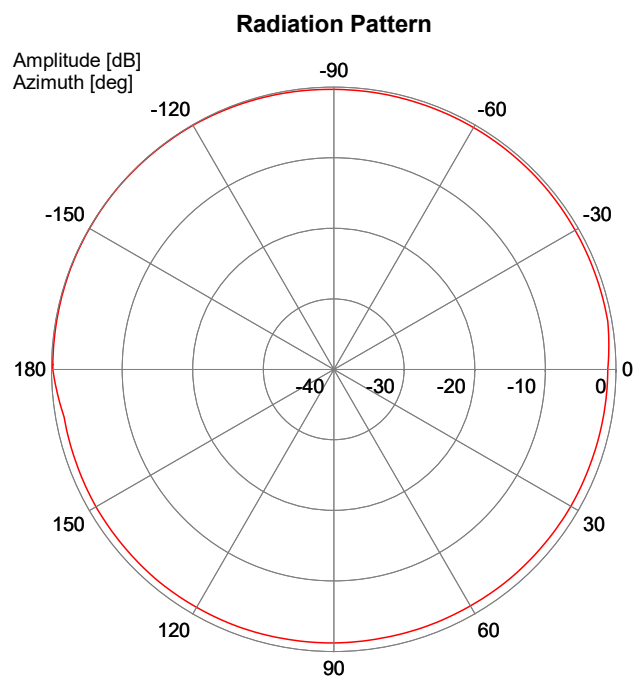
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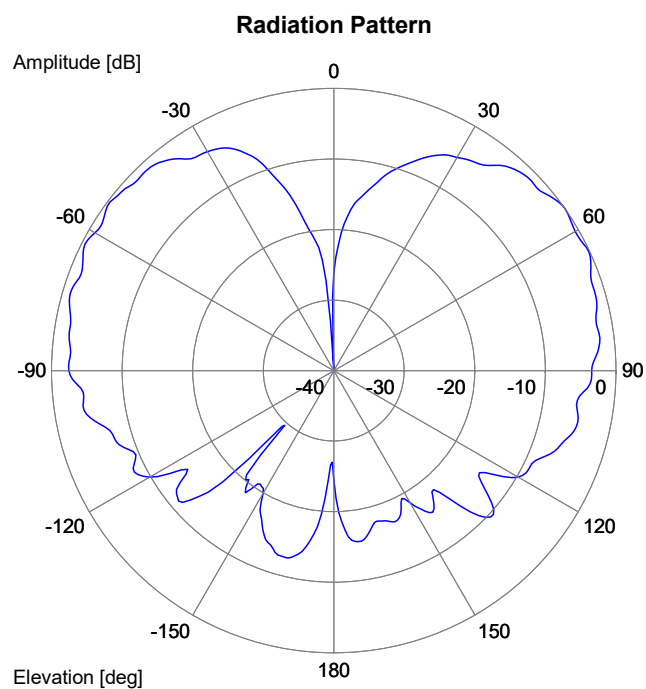
Lot-No.: 5065

Port: Vertical

Frequency: 5850 MHz



— Horizontal-Plane: Copolar



— Vertical-Plane: Copolar

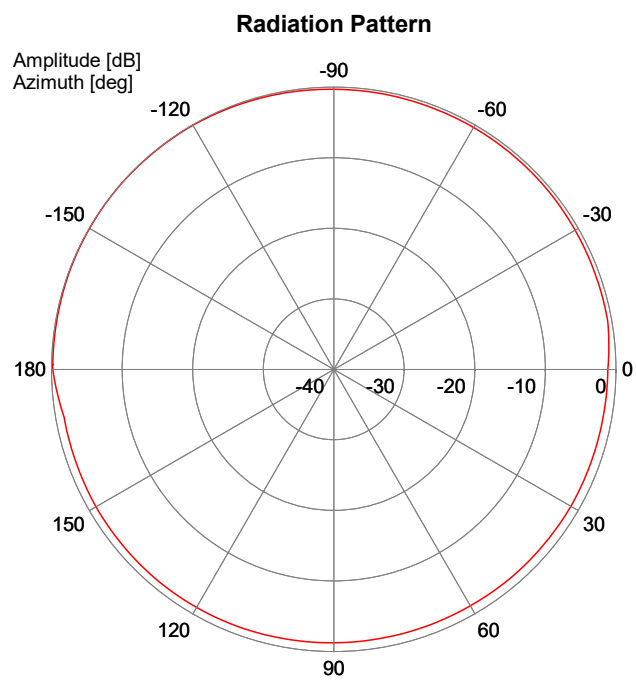
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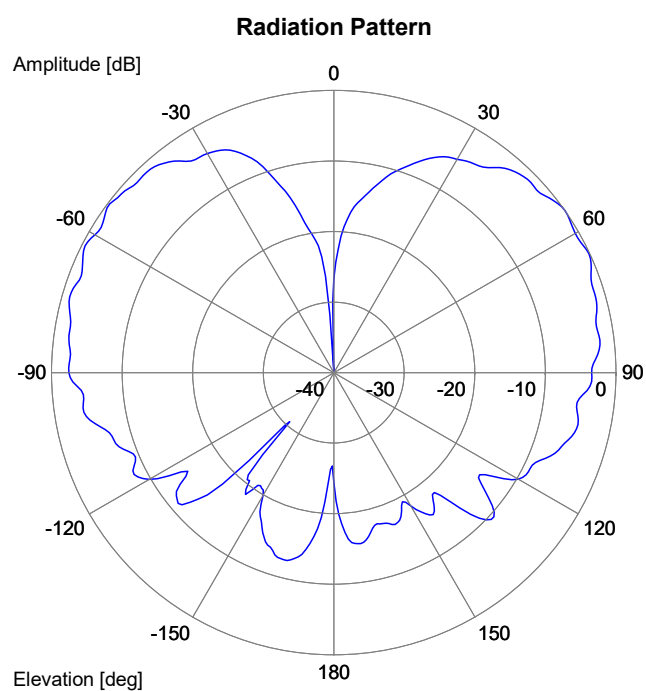
Lot-No.: 5065

Port: Vertical

Frequency: 5855 MHz



— Horizontal-Plane: Copolar



— Vertical-Plane: Copolar

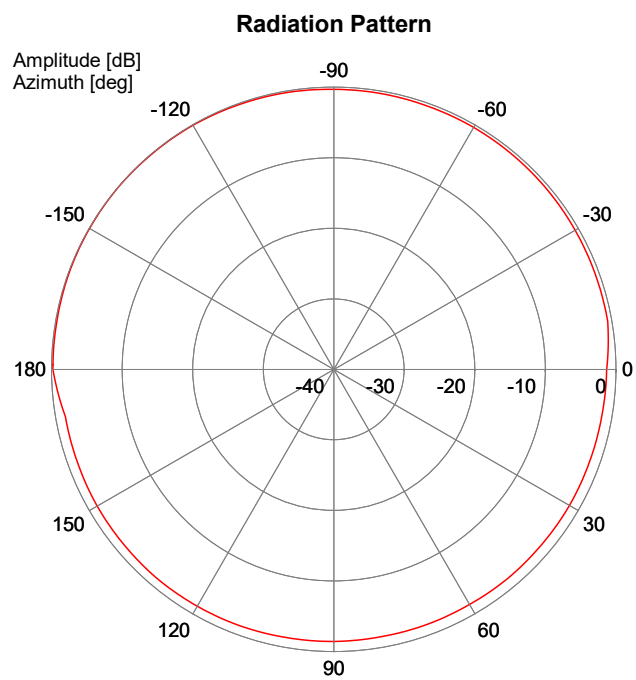
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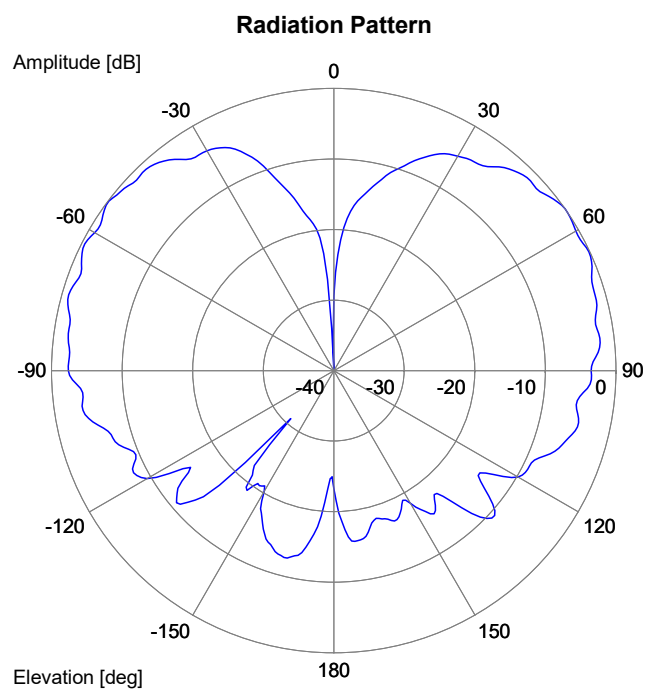
Lot-No.: 5065

Port: Vertical

Frequency: 5875 MHz



— Horizontal-Plane: Copolar



— Vertical-Plane: Copolar