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ISSUE 01-04-21A

SERIES
ANTENNA

LEICA GEOSYSTEMS PART NUMBER 877520

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ELECTRICAL CHARACTERISTICS

Frequency :	2.4-2.485	GHz
Nominal Impedance :	50	Ω
VSWR :	2.5:1	Max.
Gain (Overall Gain with filter losses) :	0±1	dBi
Antenna Peak Gain :	<1	dBi
Stand Alone, Out-of-Band Filter Rejection ⁽¹⁾ :		
100 -2300 MHz	35	dB min
2300 – 2375 MHz	43	dB min
2505 -2620 MHz	35	dB min
2620-7500 MHz	36	dB min
Out of band Antenna Gain (see curves)	-25	dBi
Polarization :	LINEAR VERTICAL	
Radiation Pattern :	OMNIDIRECTIONAL	
Power withstanding :	28	dBm
Connector Type :	KEY CODE	

MECHANICAL CHARACTERISTICS

Radome material :	POLYCARBONATE	
Color :	Jet Black RAL 9005	
Weight :	22	g
Dimensions : (Length, Width, Height)	141.2 x 21.5 x 19.6	mm

ENVIRONMENTAL CHARACTERISTICS

Operating temperature :	-20/+50	° C
Storage temperature :	-40/+70	° C
Ingress Protection	Sealed connector (up to 0.5 Bar)	
RoHS & REACH	See radiall.com/rohs	
WEEE	N/A	

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ELECTRICAL DATA

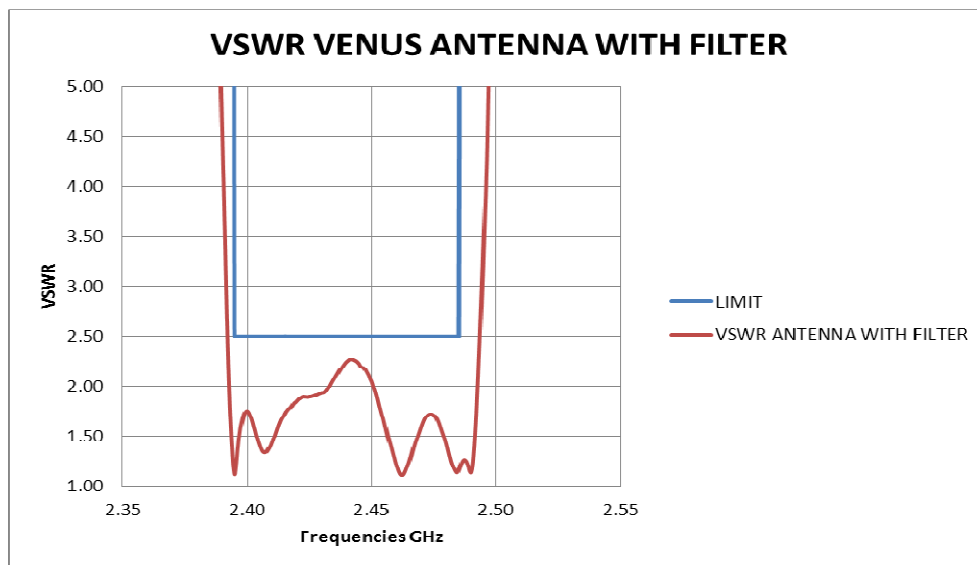


Figure 1: Typical VSWR

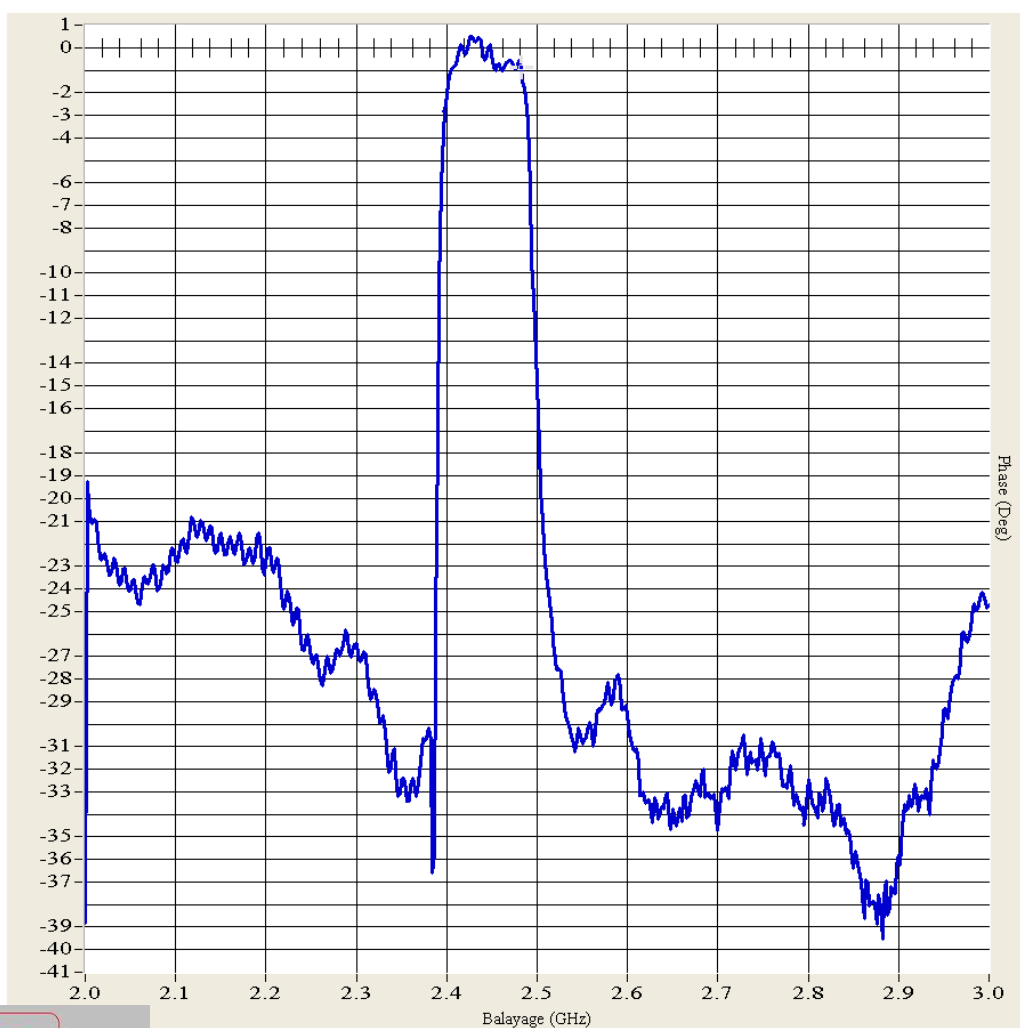


Figure 2: Typical Antenna peak gain vs Frequency

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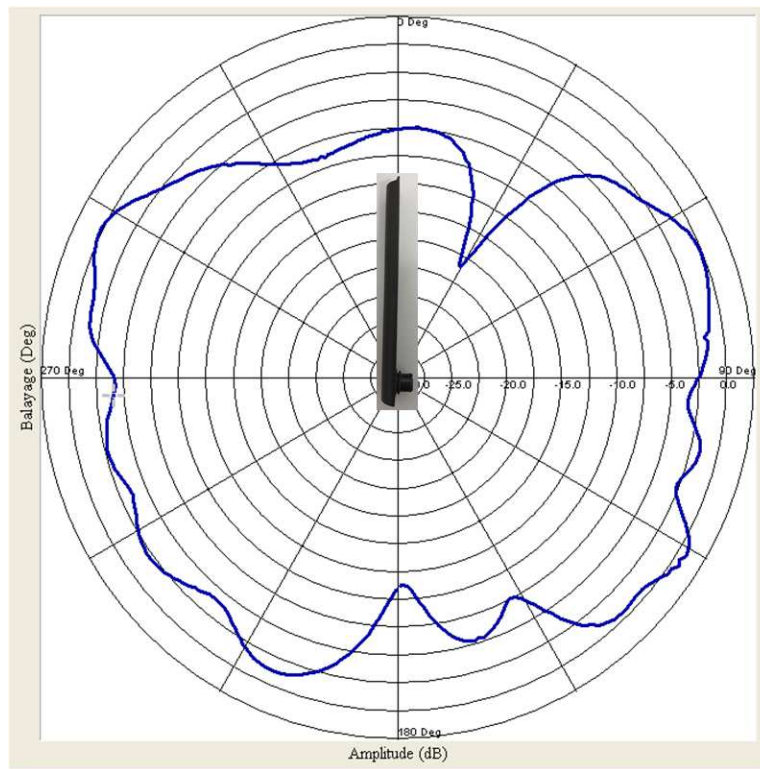


Figure 3: Typical Radiation Pattern in Elevation Plane at 2400 MHz (dBi plot)

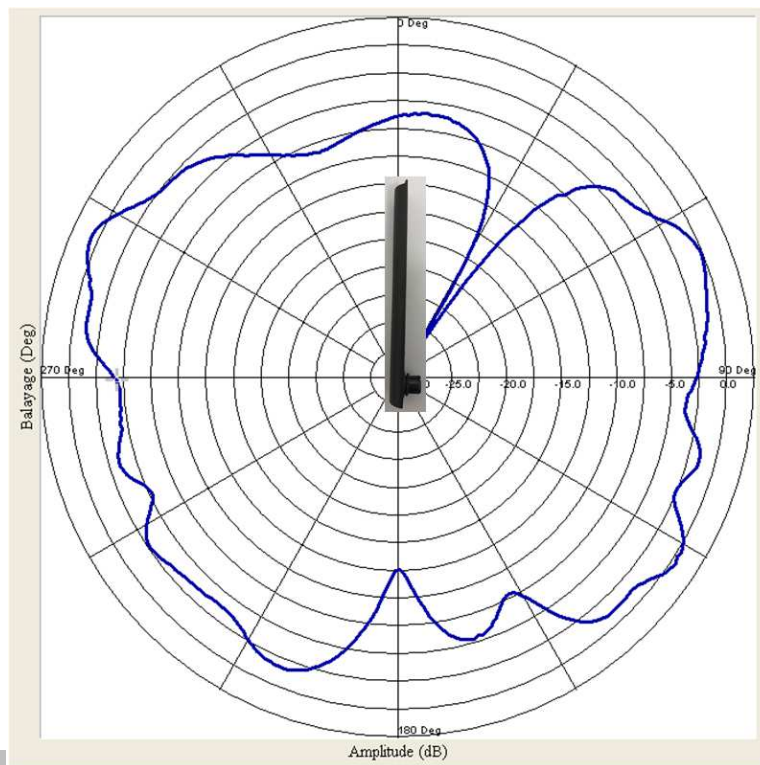


Figure 4: Typical Radiation Pattern in Elevation Plane at 2450 MHz (dBi plot)

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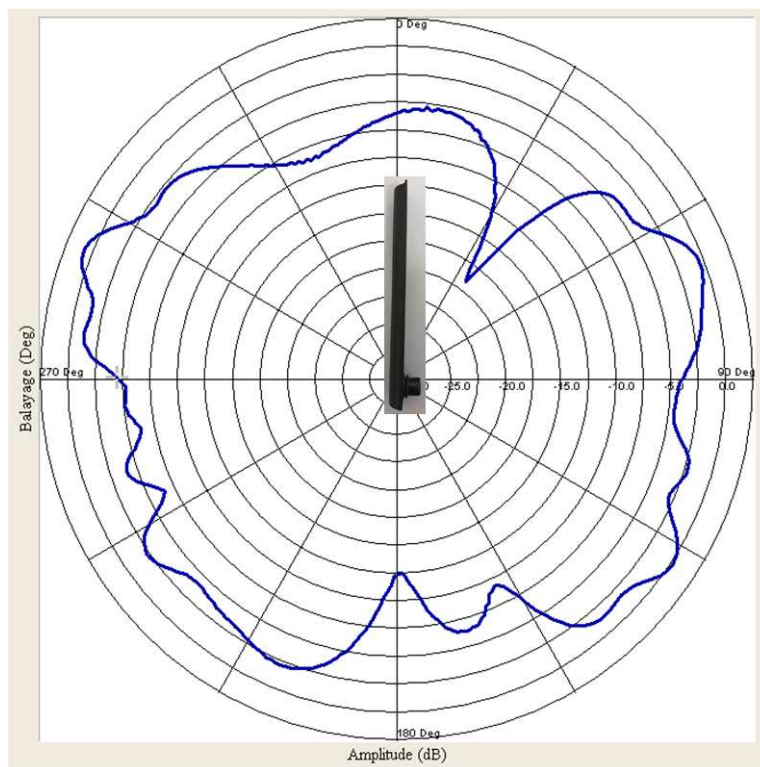


Figure 5: Typical Radiation Pattern in Elevation Plane at 2485 MHz (dBi plot)

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