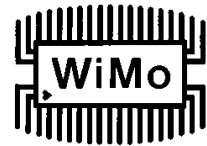




PA-5000-15-DS
Flachantenne 5GHz dual polarity
Best.Nr. 18671.5



5GHz Flachantenne mit zwei Antennensystemen in einem Gehäuse, damit bestens geeignet für 802.11n MIMO Systeme. Beide Antennen haben je 15dBi Gewinn und bieten genug Gewinn für längere Punkt-zu-Punkt Strecken, die mit der 802.11n Technik prinzipiell bis zu 300Mbit/s übertragen können (Datenrate abhängig vom WLAN Gerät und Entfernung). Die Antenne wird mit einer praktischen Schwenk/Neigehalterung für Mastmontage geliefert und lässt sich leicht in horizontaler und vertikaler Ebene ausrichten. Anschlüsse 2x N-Buchse für beste Witterungsbeständigkeit auch im Aussenbereich.

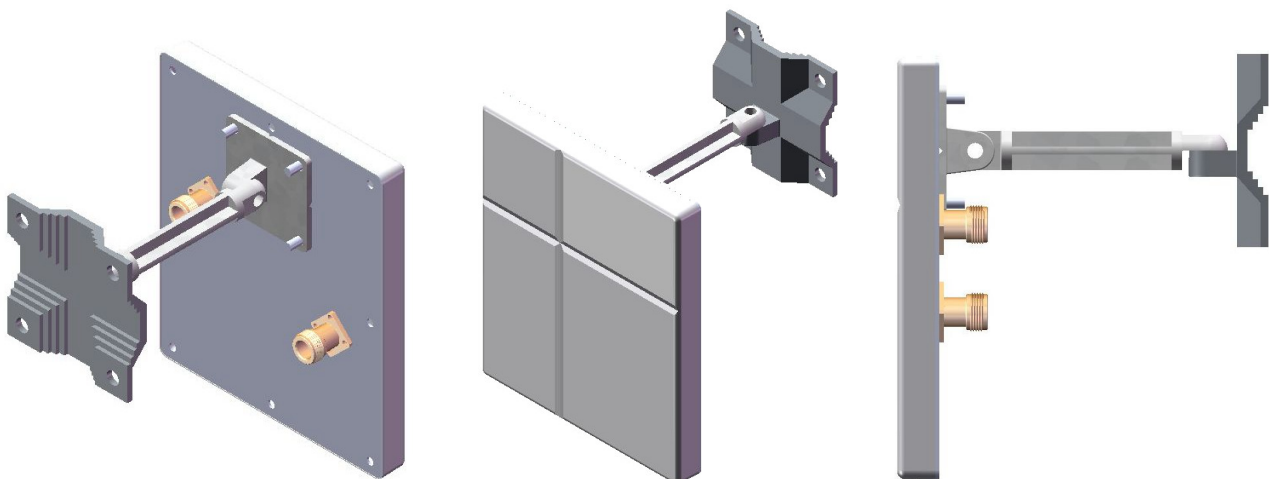
5GHz flat panel antenna with two antenna systems in one box, highly suitable for 802.11n systems. Both antennas have a gain of 15dBi which make it useful for long distance point-to-point links with up to 300Mbit/s (speed depends on hardware, distance etc.). The antenna is shipped with a versatile tilt/swivel mast mount for easy adjustment in azimuth and elevation direction. Two N female connectors for excellent weather resilience in outdoor use.

SPECIFICATIONS

Frequenzbereich / Frequency Range :	4.9~5.9 GHz
VSWR :	≤ 2.0
Impedanz / Impedance :	50 Ω ± 5 Ω
Gewinn / Gain :	2x15 dBi
Polarisation :	Dual
Öffnungswinkel V / HPBW V:	ca. 22 °
Öffnungswinkel H / HPBW H:	ca. 22 °
Max. belastbarkeit / Power rating:	10 Watt
Anschluß / Connector :	N female
Temperaturbereich / Operation Temp. :	-30° ~ +60°
Material :	Radome: ABS Mount: Zinc Alloy
Abmessungen / Dimension (L*W*H) :	162.5*137.5*16 mm
Gewicht / Weight :	215g ± 20g
Farbe / Color :	White

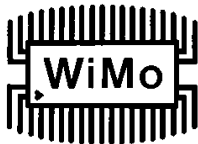


3D Illustration

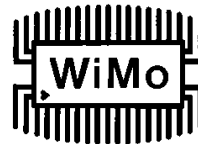


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TESTING CONDITION

VSWR measurement (S11): Use ROHDE & SCHWARZ ZV8 Network Analyzer.

VSWR Performance			
Freq (MHz)	5100	5200	5300
Free space (port 1)	1.4	1.3	1.2
Free space (port 2)	1.4	1.5	1.5
Freq (MHz)	5400	5500	5600
Free space (port 1)	1.1	1.3	1.6
Free space (port 2)	1.5	1.4	1.4
Freq (MHz)	5700	5800	5900
Free space (port 1)	1.7	1.9	2.0
Free space (port 2)	1.5	1.5	1.7

GAIN MEASUREMENT

TEST SETUP

The gain of the antenna was measured in a non-reflective chamber. The chamber provides less than -30 dB reflectivity from 800 MHz through 6 GHz and a 60cm diameter spherical quiet zone. The measurement results are calibrated using both SCHWARZBECK horn standards. A decoupling sleeve is used to reduce feed line radiation.

Peak Gain (dBi)			
Freq (MHz)	5100	5200	5300
Port 1	14.17	13.65	14.94
Port 2	14.6	14.24	14.06
Freq (MHz)	5400	5500	5600
Port 1	15.25	16.61	14.35
Port 2	14.11	15.58	13.69
Freq (MHz)	5700	5800	5900
Port 1	13.49	14.19	14.17
Port 2	12.66	13.49	13.69

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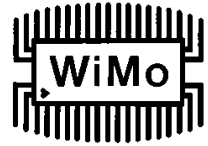
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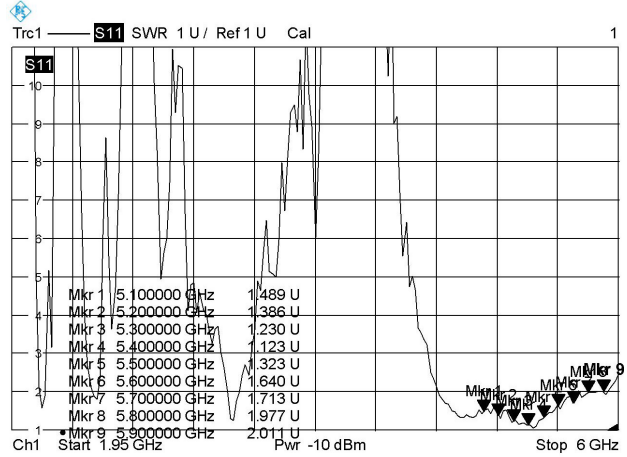
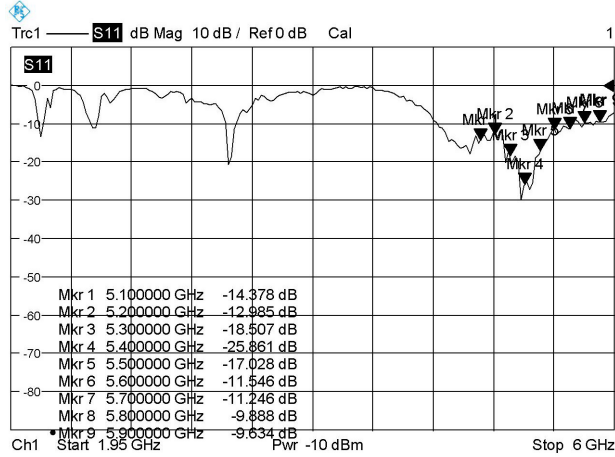


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Return loss (port 1)

SWR (port 1)

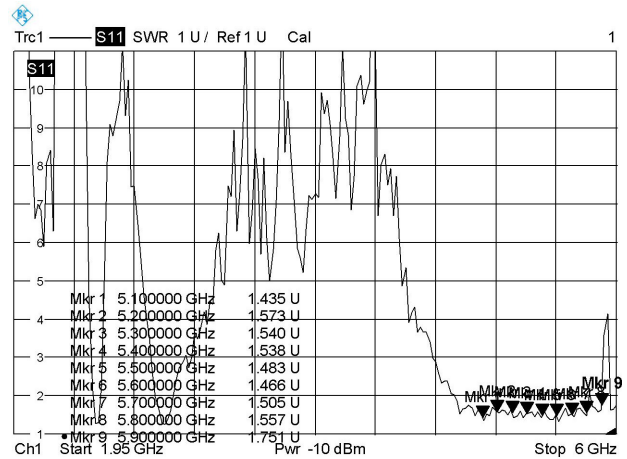
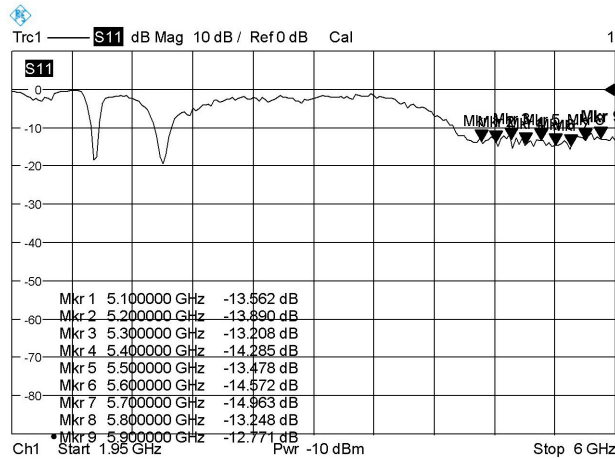


Date: 9.JUL.2010 11:53:10

Date: 9.JUL.2010 11:53:39

Return loss (port 2)

SWR (port 2)



Date: 9.JUL.2010 11:54:35

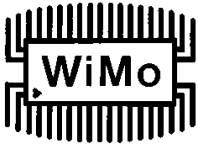
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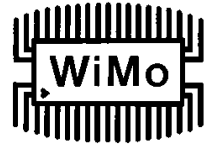
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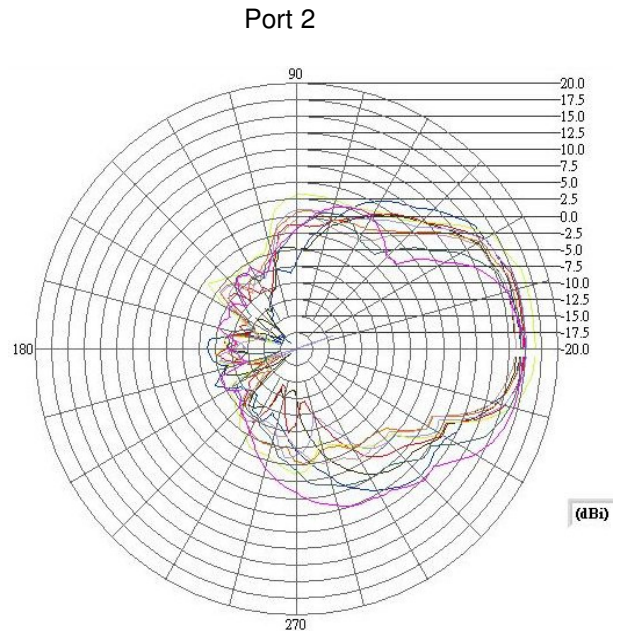
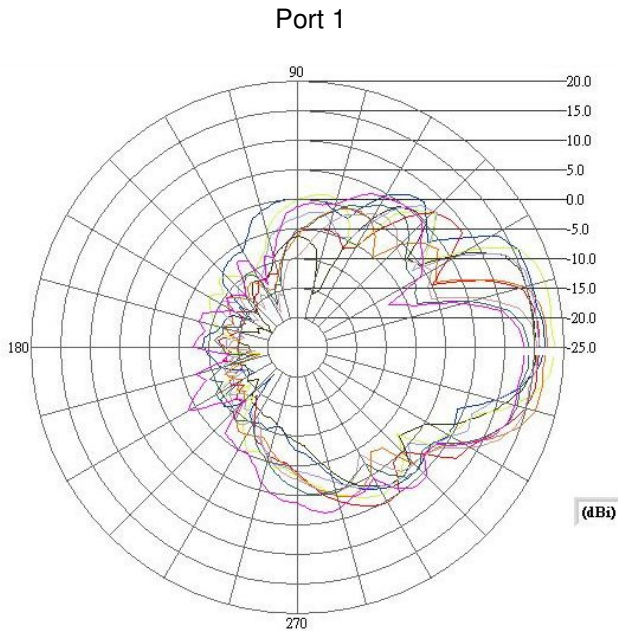
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Richtdiagramm / Pattern



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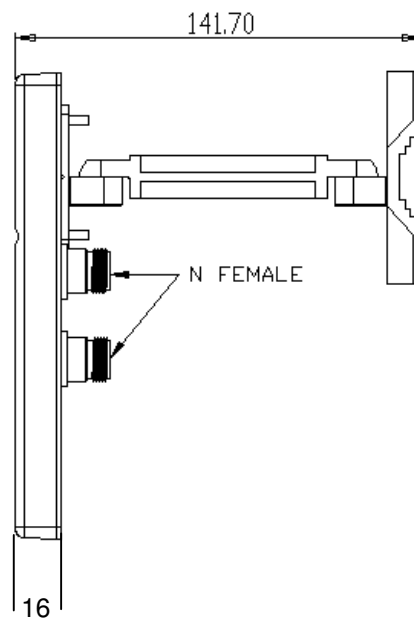
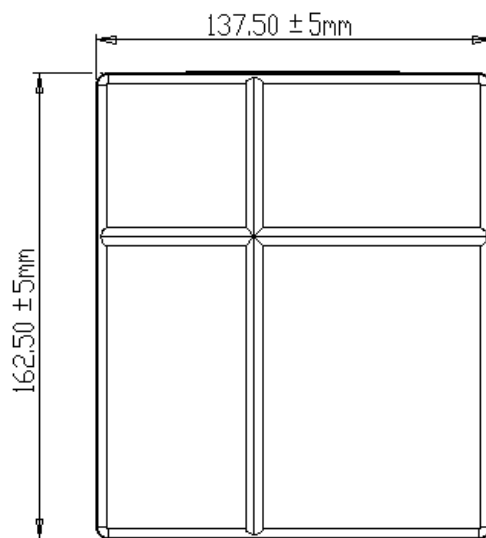
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Abmessungen / Dimensions



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