

Datenblatt / Datasheet

Low Profile Antenne Low Profile Antenna

MCA 2458 S
Erz-Nr. / Ord. code
920 315-002

WLAN

- Passive Sende-/Empfangsantenne für die Frequenzbereiche WLAN 2,4 GHz und 5 GHz entspr. Standard IEEE 802.11 a, b, g, h, n, p
- geringe Bauhöhe ca. 30 mm
- Montage auf unterschiedlichsten Oberflächen (z.B. Kunststoff, Metall ...)
- *Passive transmitting and reception antenna for the frequencies WLAN 2,4 GHz and 5 GHz acc. standard IEEE 802.11 a, b, g, h, n, p*
- *Low body height ca. 30 mm*
- *Mounting on several surfaces (e.g. plastics, metal ...)*



Änderungen vorbehalten / Subject to alterations

Technische Daten / Technical data

Abmessungen / Dimensions	app.	80 mm x 80 mm x 28 mm
Gehäusematerial / Housing material		ASA-PC
Temperaturbereich / Temperature range		-40 - +80°C / -40 - +176 °F
Schutzklasse / Protection class		IP6k9k (acc. ISO 20653)
WLAN		
Frequenzbereich / Frequency range	IEEE 802.11 b, g:	2400 - 2484 MHz
	IEEE 802.11 a, h:	5150 - 5725 MHz
	IEEE 802.11 n:	2400 - 2484 MHz
		5150 - 5725 MHz
	IEEE 802.11 p:	5755 - 5925 MHz
Impedanz / Impedance		50 Ohm
VSWR		≤ 1,5
Gewinn / Gain		> 3 dBi ¹⁾
Polarisation / Polarization		linear, vertikal / linear, vertical
Belastbarkeit / Load capacity	IEEE 802.11 b, g:	≤ 200 mW
	IEEE 802.11 a, h:	≤ 1000 mW
	IEEE 802.11 n:	≤ 200 mW (2,4 - 2,84 GHz)
		≤ 1000 mW (5,1 - 5,72 GHz)
	IEEE 802.11 p:	≤ 8 W EIRP (5,79 - 5,81 GHz)
		≤ 2 W EIRP (5,85 - 5,92 GHz)
Kabeltyp / Cable type		RG 174 low loss
Kabellänge / Cable length		1000 +10 mm ²⁾
Anschluss / Connector		SMA male straight ²⁾

1) dBi: gemessen gegenüber Isotropen-Strahler / referenced to an isotropic radiator

2) andere Ausführungen auf Anfrage / other types on request

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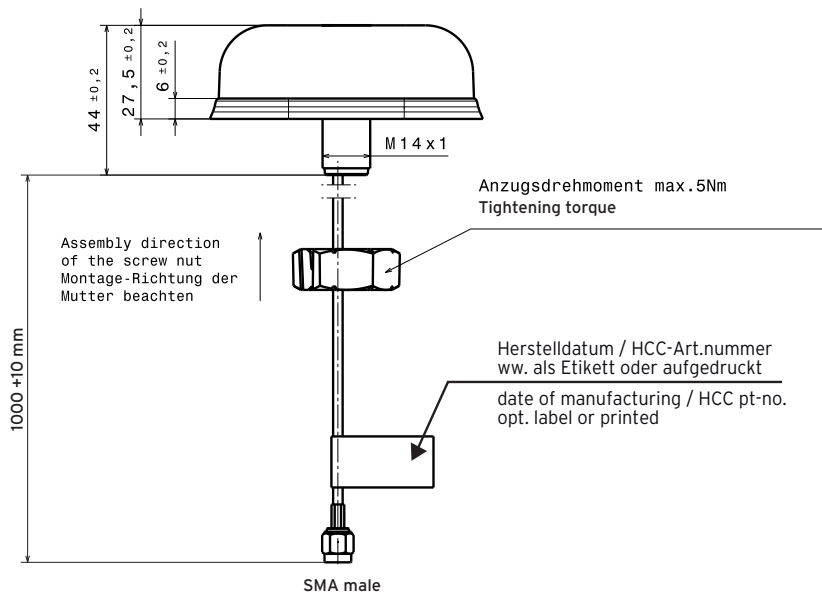
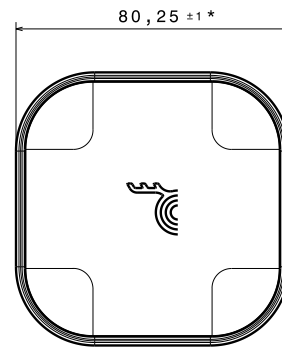
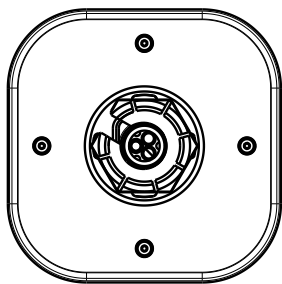
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Technische Zeichnungen
Technical drawings



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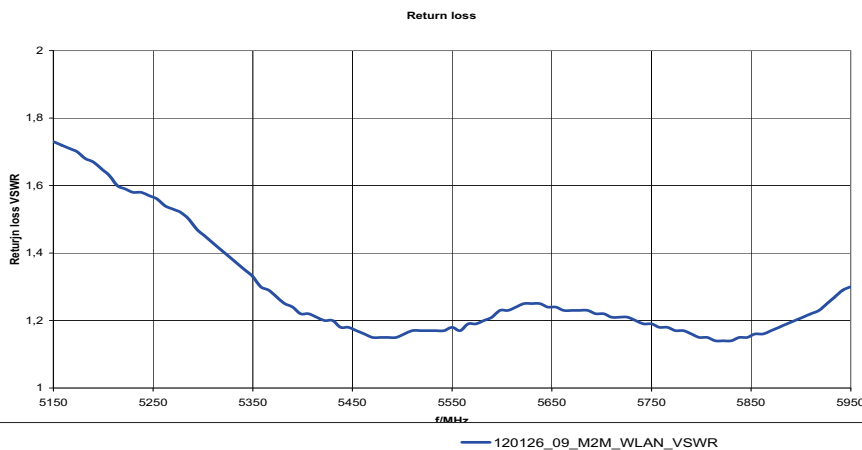
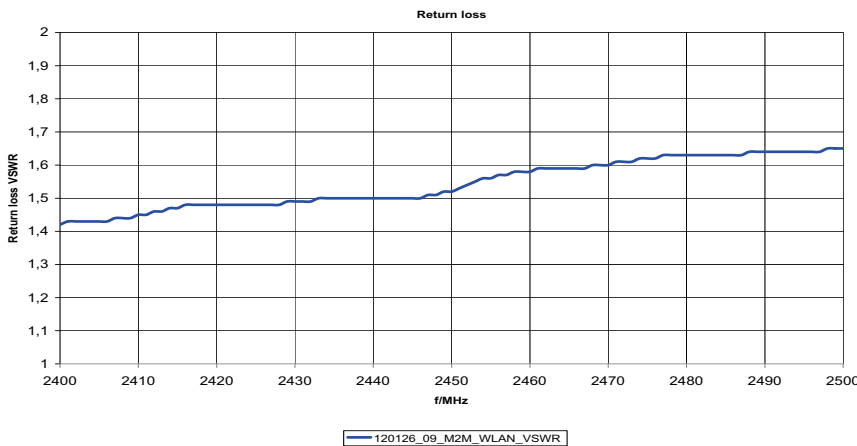
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Antennendiagramm
Antenna diagram

Typisches VSWR / Typical VSWR

ELECTRICAL WLAN		
Standard	IEEE 802.11 b,g,n	IEEE 802.11 a,h,n,p
Band (MHz)	2450	5400
Frequency (MHz)	2400-2484	5150-5925
Return Loss (dB)		
Cable length (m)	0,2	1,2
Efficiency (%)		
Cable length (m)	0,2	71,50%
Gain (dBi)		
Cable length (m)	0,2	3,6



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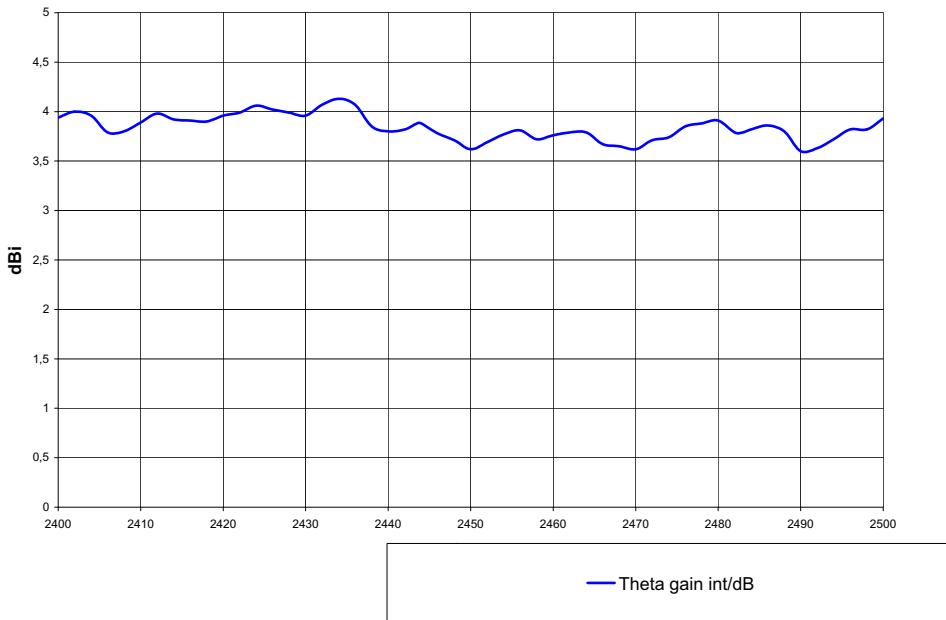
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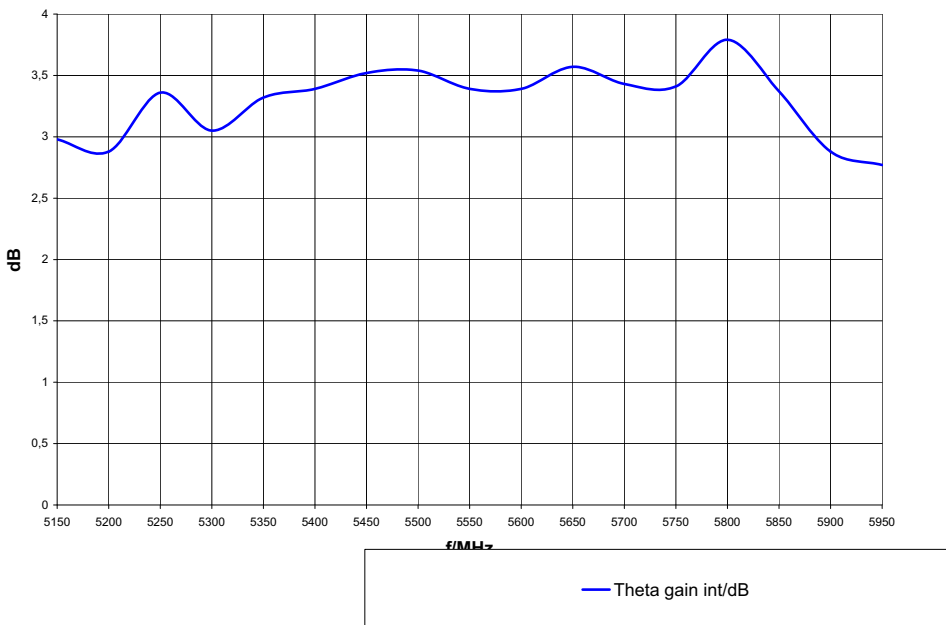
Antennendiagramme
Antenna diagrams

Integraler Pegel / Integral level

Integralwert Elevation 0...10°
 vertikale Polarisation



Integralwert Elevation 0...10°
 vertikale Polarisation



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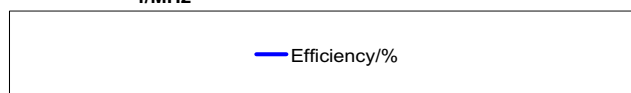
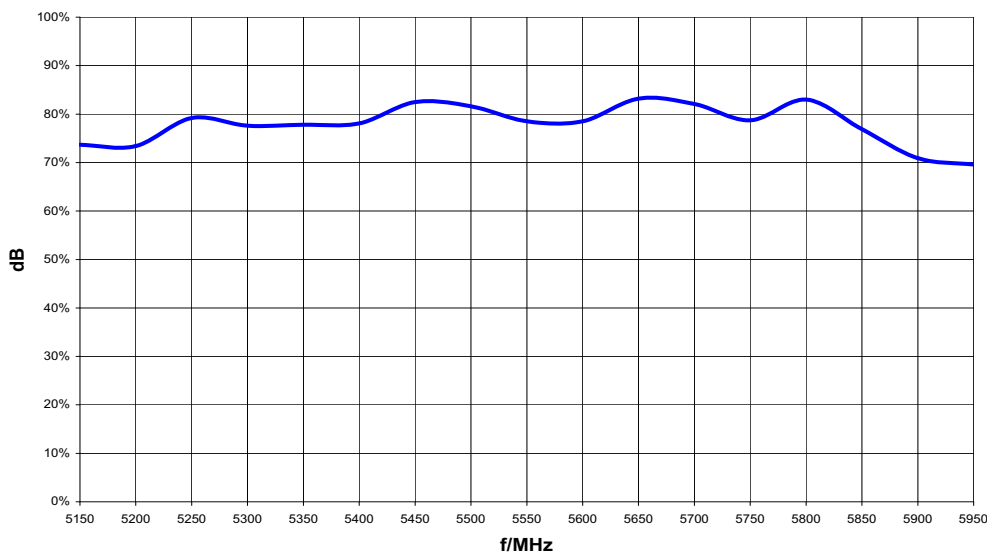
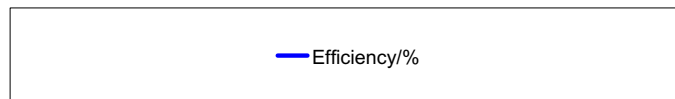
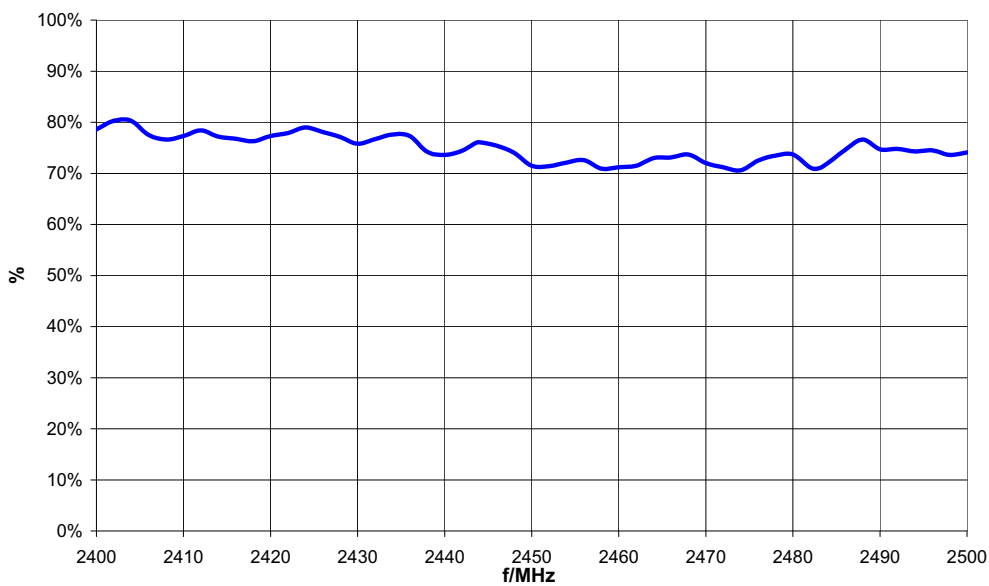
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Antenna diagrams

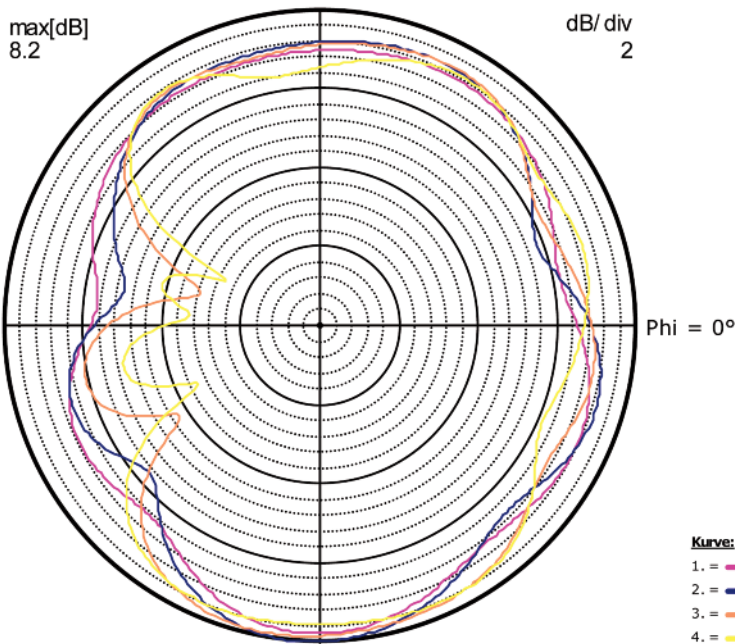
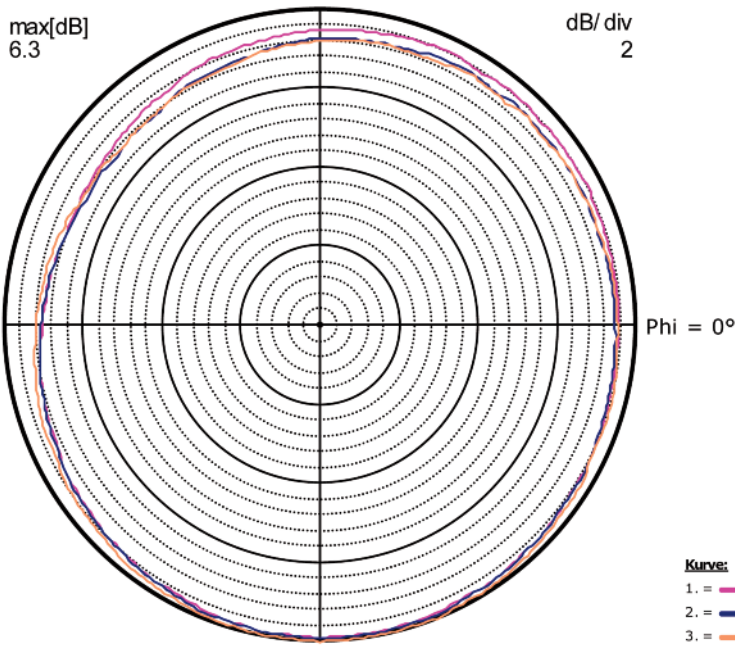
Wirkungsgrad / Efficiency



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Antennendiagramme
Antenna diagrams

Typisches Strahlungsdiagramm (H-Ebene)
Typical radiation pattern (H-plane)

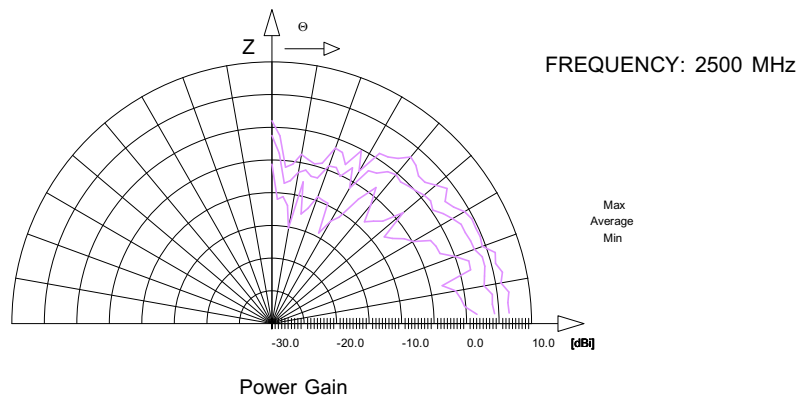
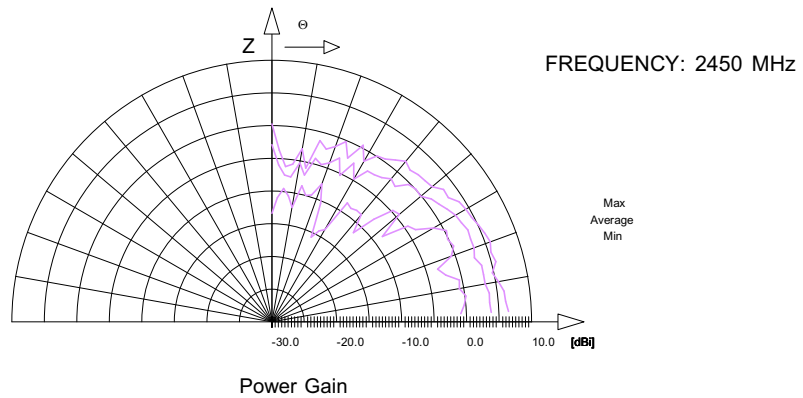
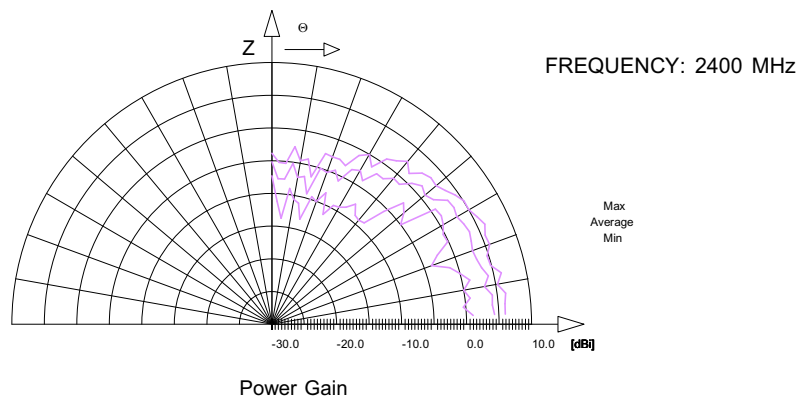


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Antennendiagramme
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Typisches Strahlungsdiagramm (V-Ebene)
Typical radiation pattern (V-plane)



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Typisches Strahlungsdiagramm (V-Ebene)
Typical radiation pattern (V-plane)

