

Datenblatt / Datasheet

Low Profile Antenne Low Profile Antenna

MCA 1890 S
Erz-Nr. / Ord. code
920 315-001

CELLULAR

- Passive Sende-/Empfangsantenne für die Frequenzbereiche GSM 850, GSM 900, GSM 1800, GSM 1900 und UMTS
- geringe Bauhöhe ca. 30 mm
- Abdeckung europäischer und US-amerikanischer Cellular-Telefon-Frequenzen
- Montage auf unterschiedlichsten Oberflächen (z.B. Kunststoff, Metall ...)
- *Passive transmitting and reception antenna for the frequencies GSM 850, GSM 900, GSM 1800, GSM 1900 and UMTS*
- *Low body height ca. 30 mm*
- *Coverage of European and American cellular phone frequencies*
- *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)
CELLULAR		
Frequenzbereich / Frequency range	GSM 850: GSM 900: GSM 1800: GSM 1900: UMTS:	824 - 894 MHz 880 - 960 MHz 1710 - 1880 MHz 1850 - 1990 MHz 1920 - 2170 MHz
Impedanz / Impedance		50 Ohm
VSWR		typ. ≤ 2,0
Gewinn / Gain		typ. 0 dBi ¹⁾
Polarisation / Polarization		linear, vertikal / linear, vertical
Belastbarkeit / Load capacity	min.	8 W gepulst, pulsed acc. GSM standard
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

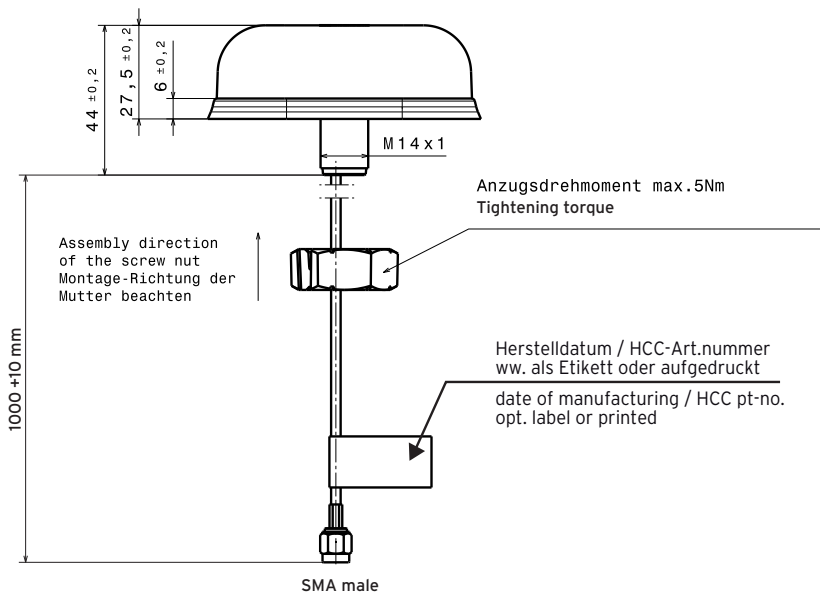
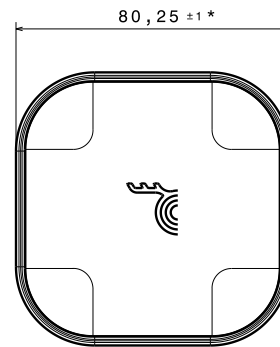
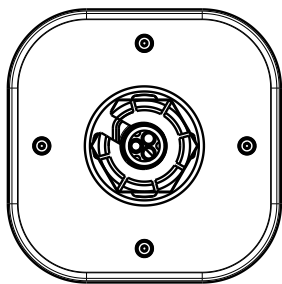
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Technische Zeichnungen
Technical drawings



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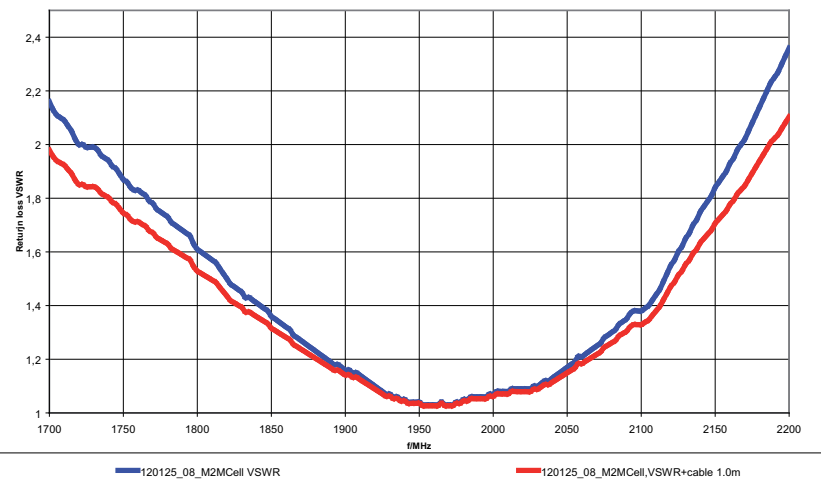
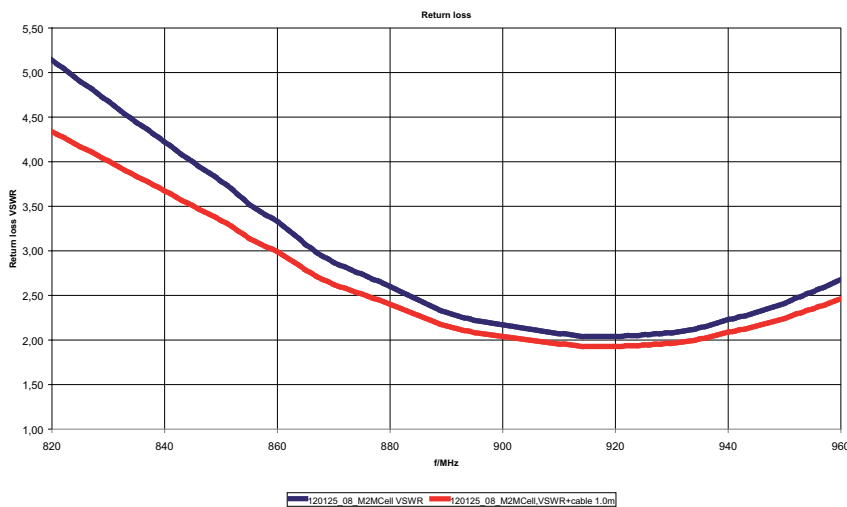
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Standard	GSM/AMPS	GSM	GSM/DCS	GSM/PCS	UMTS/3G
Band (MHz)	850	900	1800	1900	2100
Frequency (MHz)	824-896	880-960	1710-1880	1850-1990	1920-2170
Return Loss (dB)					
Cable length (m) 0,2	-4,7	-8,7	-12,6	-22,6	-15,9
Cable length (m) 1,0	-5,4	-9,3	-13,6	-23,6	-17,0
Efficiency (%)					
Cable length (m) 0,2	19,00%	47,60%	87,00%	79,00%	79,40%
Cable length (m) 1,0	16,30%	40,80%	69,71%	63,02%	62,23%
Gain (dBi)					
Cable length (m) 0,2	-3,4	0,7	3,3	2,2	-0,6
Cable length (m) 1,0	-4,1	0,1	2,3	1,2	-1,6

Antennendiagramme
Antenna diagrams

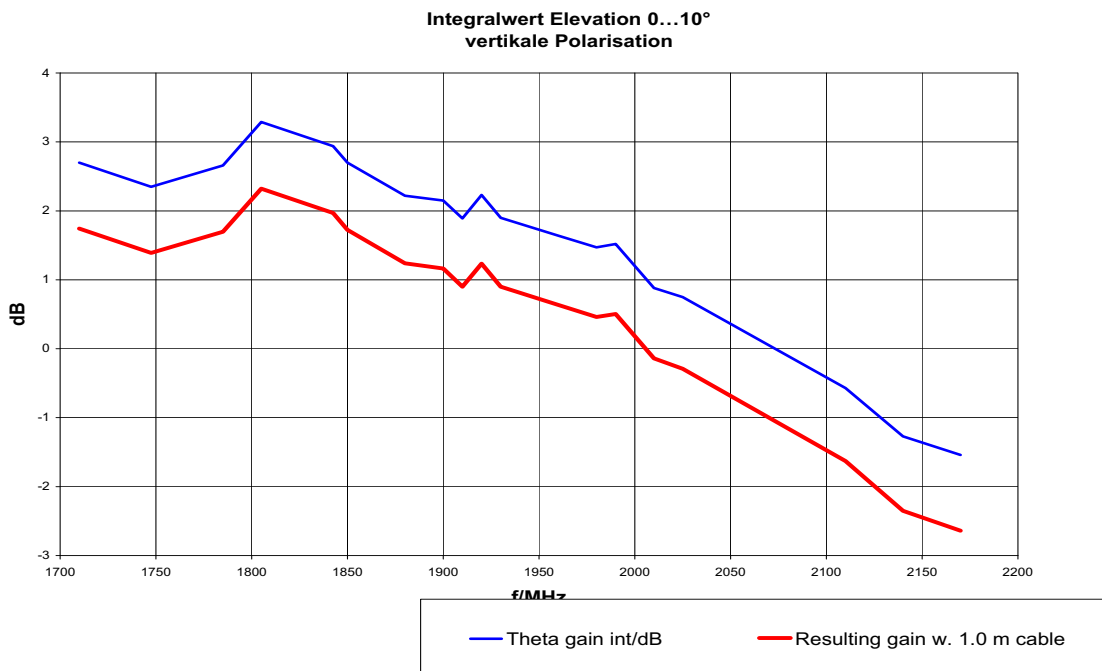
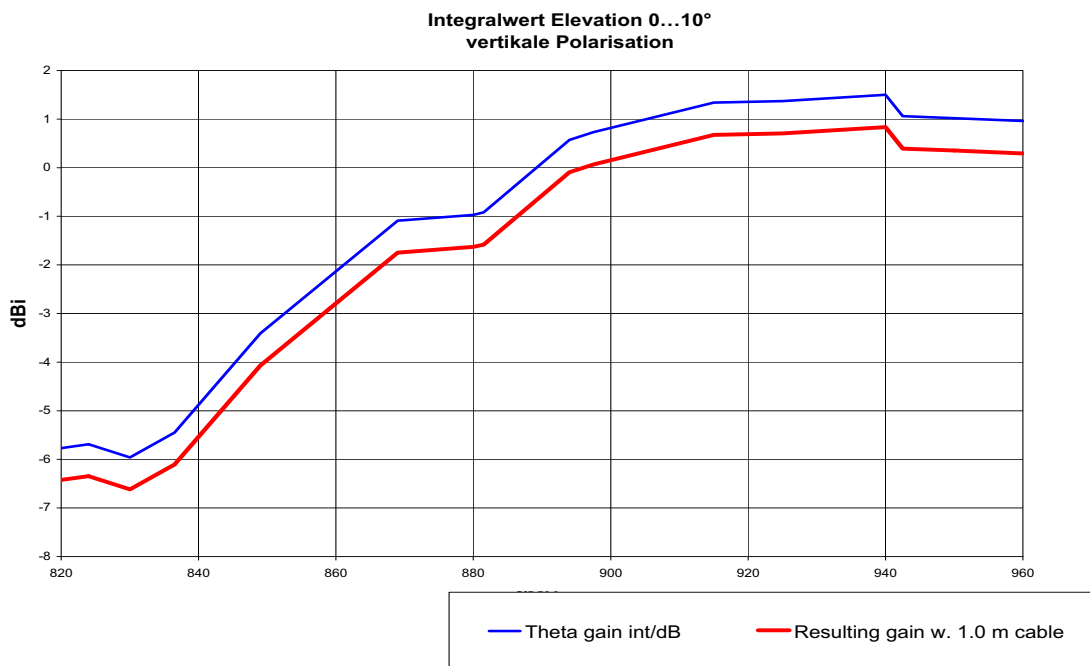
Typisches VSWR / Typical VSWR



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Antennendiagramme
Antenna diagrams

Integraler Pegel / Integral level



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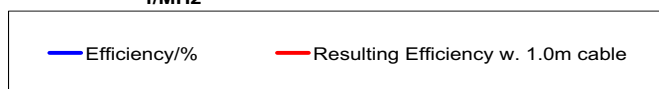
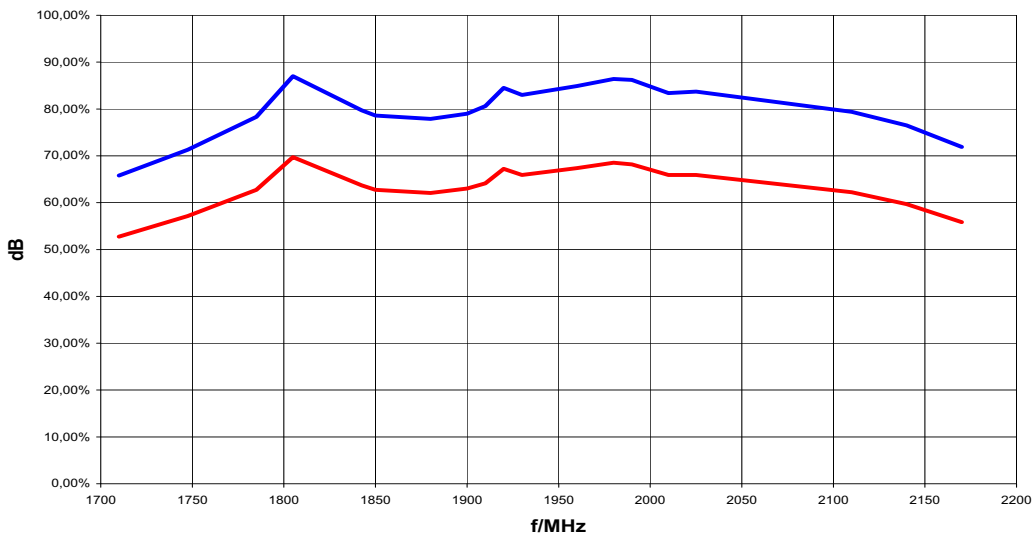
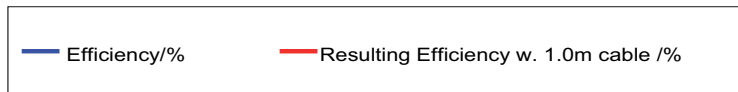
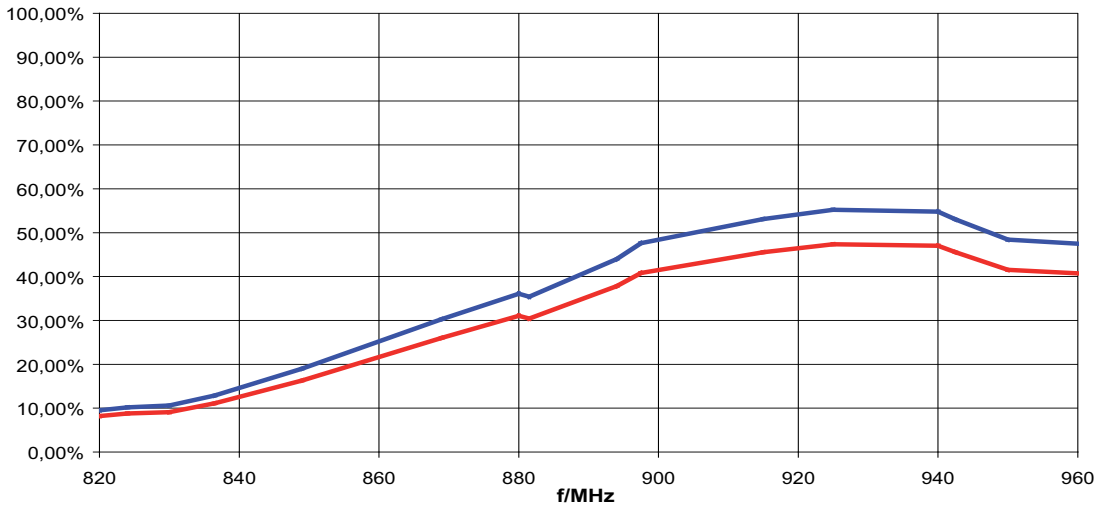
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Antennendiagramme
Antenna diagrams

Wirkungsgrad / Efficiency



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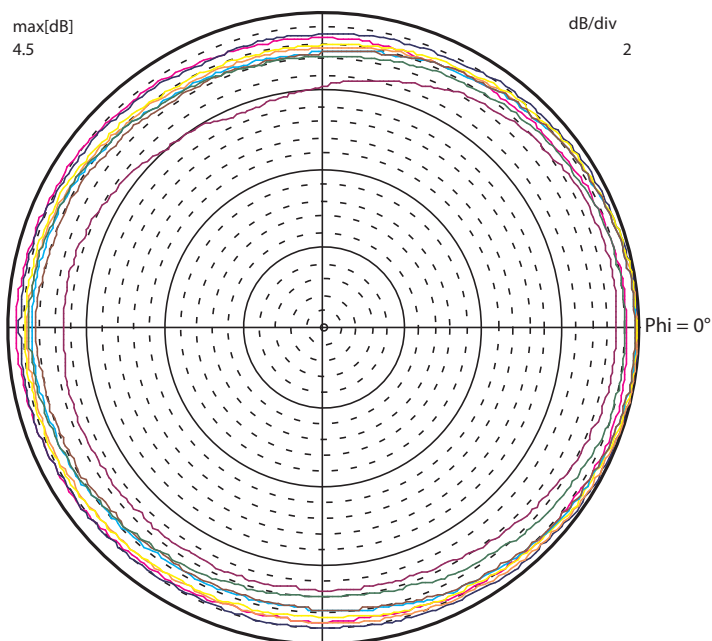
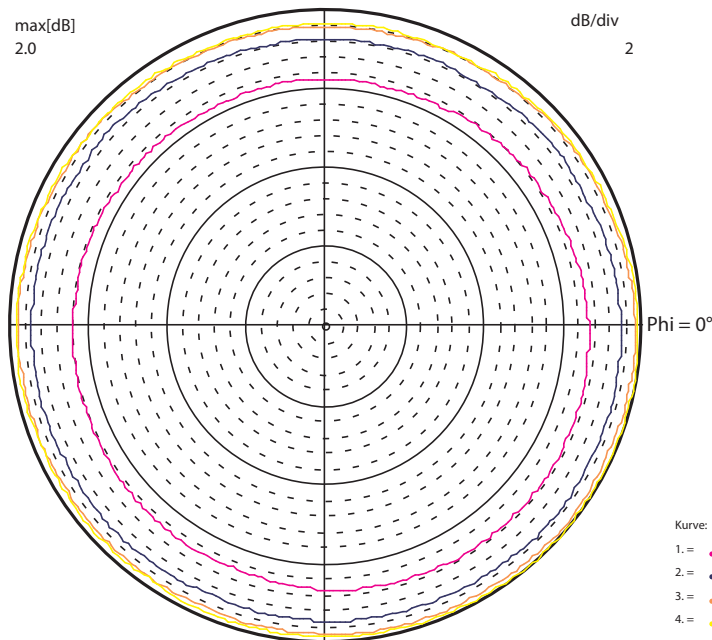
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Antenna diagrams

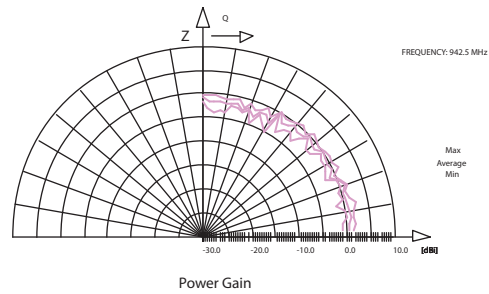
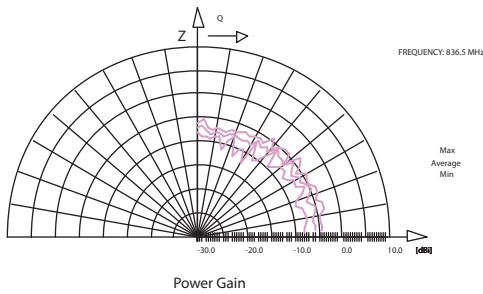
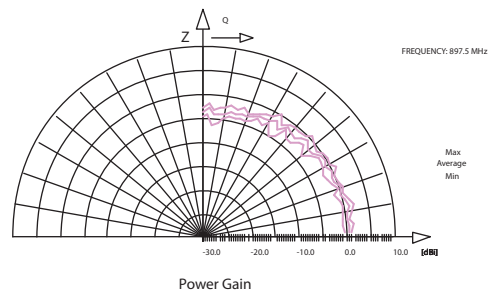
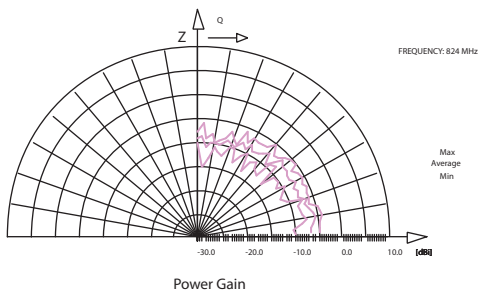
Typisches Strahlungsdiagramm (H-Ebene)
Typical radiation pattern (H-plane)



Änderungen vorbehalten / *Subject to alterations*

Antennendiagramme
Antenna diagrams

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



Änderungen vorbehalten / *Subject to alterations*

Antennendiagramme
Antenna diagrams

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

