



# OmPlecs®-TOP 200 AMR MF-05 -5- 5G MIMO 4x4 L

- Bahnantenne / Train Antenna -

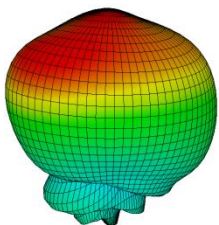
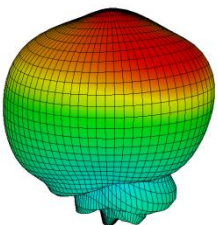
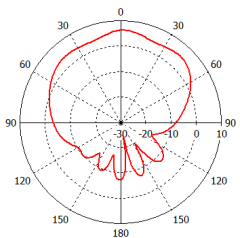
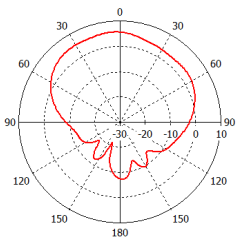


LTE 700 (4x4 MIMO) - GSM-R - GSM 1800 - UMTS - LTE 2600 (4x4 MIMO) - 5G (3.1 - 3.8GHz) (4x4 MIMO)

100-58-10-05.50

Verwendungszweck	Multiband-Bahnantenne mit Zertifizierung / Zulassung nach Bahnnorm EN 50155 zur Montage auf Schienen- und Kraftfahrzeugen	Outdoor-Use 100-58-10-05.50	Indoor-Use 100-58-10-05.50-BA
Purpose	Multiband-Train Antenna with certification / approval according to train standard EN 50155 for mounting on trains and vehicles		

Technical data / Technische Daten			
RF-Port	a / c		b / d
Spectrum	GSM-R / GSM 1800 UMTS / LTE / 5G		GSM-R / GSM 1800 UMTS / LTE / 5G
Frequency [MHz]	694 - 960 1710 - 2690 3100 - 3800		694 - 960 1710 - 2690 3100 - 3800
Polarization	crosspolar		crosspolar
	vertical: 50%	horizontal: 50%	vertical: 50%      horizontal: 50%
ECC	typ. 0,05		typ. 0,05
Diversity Gain	typ. 9,90		typ. 9,90
Pattern	omnidirectional		omnidirectional
Gain	7,2 dBi (LTE 700, GSM-R) 7,9 dBi (GSM 1800, UMTS) 10,5 dBi (LTE 2600, 5G)		7,2 dBi (LTE 700, GSM-R) 7,9 dBi (GSM 1800, UMTS) 10,5 dBi (LTE 2600, 5G)
Efficiency	71 %		71 %
VSWR	≤ 1,8 typ.		≤ 1,8 typ.
Impedance	50 Ω		50 Ω
Antenna type	planar antenna structure		planar antenna structure
Power / DC Voltage	50 W		50 W
RF-Connection	N(f)		N(f)
Ground-plane	integrated, but min. Ø 300 mm for LTE 700 & GSM 850		integrated, but min. Ø 300 mm for LTE 700 & GSM 850

Radiation Diagrams / Richtdiagramme		
RF-Port	a / c	b / d
3D-Pattern		
2D-Pattern (vertical)		
2D-Pattern (horizontal)	