

CATALOGUE 2017/1

RCD RADIOKOMUNIKACE



ANTENNAS

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SUCCESSOR TO THE THRONE
OF TELEGRAFIA AND TESLA PARDUBICE
IN THE KINGDOM OF RADIOCOMMUNICATION

PROVIDER OF ITS OWN RADIO SOLUTION TO:

- ALL ROAD TUNNELS IN THE CZECH REPUBLIC
- ALL STATIONS OF PRAGUE METRO FOR EMERGENCY SERVICES AND MOBILE OPERATORS
- RADIO NETWORKS FOR SPECIAL FORCES OF THE CZECH POLICE
- DEVELOPMENT AND PRODUCTION OF CUSTOMIZED HIGH-FREQUENCY DEVICES
- LOCOMOTIVES IN TERRITORIES OF GERMANY, FRANCE AND THE BENELUX COUNTRIES

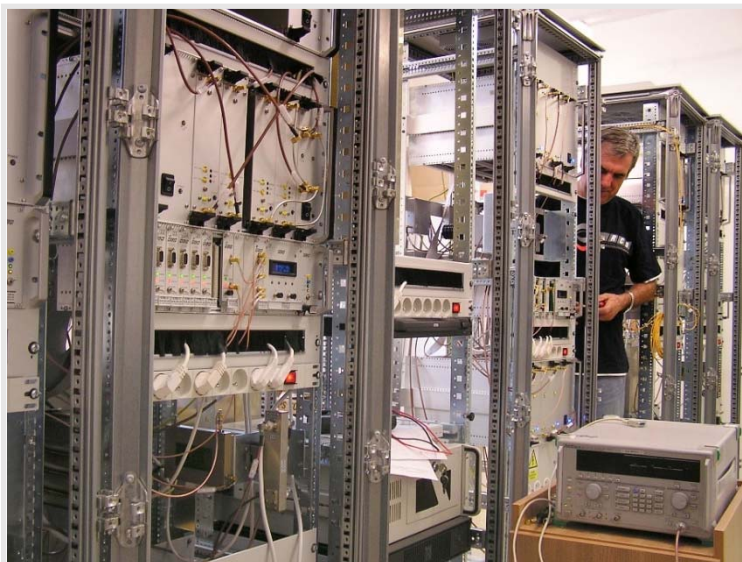
Company Profile

Name RCD Radiokomunikace spol. s r. o.
Address U Pošty 26, 533 52 Staré Hradiště
Region Pardubice, Czech Republic
Established 1993

Main Activities R&D of Radio Equipment and Solutions
Production and Turnkey Delivery
including Hotline Services 24 hours



Antennas of TETRAPOL Radio System



Road Tunnel Technology Assembling

RCD Radiokomunikace was established in 1993 and through its activities and results continues the long tradition of electronic production in Pardubice area.

RCD Radiokomunikace develops and produces customized high frequency solutions and equipment including antennas, filters, radio repeaters and radio accessories used especially by the Police and Fire Brigade working in emergencies.

RCD Radiokomunikace supplies turnkey radio solutions in underground areas, large buildings, road and railway tunnels and metros. The company is able to respond flexibly to special customer requirements on the 24-hours hotline base using components from its own development and production.

RCD Radiokomunikace is a holder of certificates: EN ISO 9001, EN ISO 14001, BS OHSAS 18001, ISO/IEC 27001. Company is also certified by National Security Authority of the Czech Republic for classification level secret.

BO 80

BO 80A

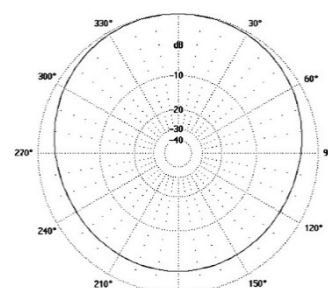
BO 80B



Description

BO 80, BO 80A and BO 80B omnidirectional base antennas are designed for mobile and data radio networks.

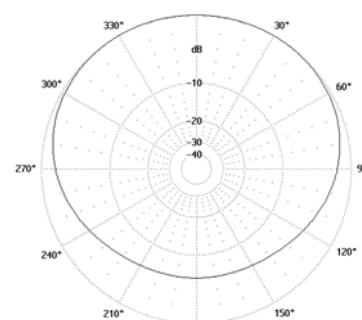
Antennas are mounted to different diameters of masts by separately ordered antenna holders. Antenna holders are made of stainless or hot-dip zinc steel. They are fastened to the masts by stainless U-bolt.



Radiation pattern – H plane

Technical Specifications

Type		BO 80	BO 80A	BO 80B
Frequency range	MHz	73 ÷ 84	66 ÷ 74	78 ÷ 89
Gain	dBi	max. 3.4		
Radiation pattern		offset (omnidirectional with shift axis)		
Front-to-back ratio	dB	2.9		
Polarization		vertical		
Impedance	Ω	50		
VSWR		< 1.7		
Maximum input power	W	300		
Grounding		all metal parts of antenna including mounting kit are DC grounded, inner conductor is capacitively coupled		
Material of antenna		lacquered aluminium alloy, plastic		
Antenna holder	mm	RCAK 400 52 – \varnothing 35 ÷ 76 (standard)		
		RCAK 400 44 – \varnothing 60 ÷ 90		
		RCK 100 001 – \varnothing 90 ÷ 120		
Material of holder		aluminium alloy, hot-dip zinc steel; all screws and nuts: stainless steel		
Weight of antenna / holder	kg	1.6 / 0.6		
Maximum wind velocity	km/h	160		
Wind load (at 160 km/h)	N	50		
Dimensions l × h	mm	732 × 1687	820 × 1907	732 × 1598
Connector type		N female		



Radiation pattern – H plane

Description

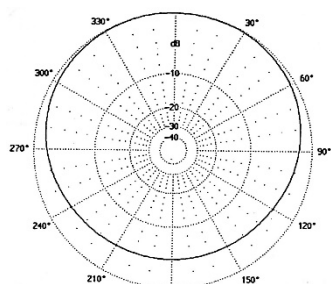
BO 140 omnidirectional base antenna is designed for mobile and data radio networks.

Technical Specifications

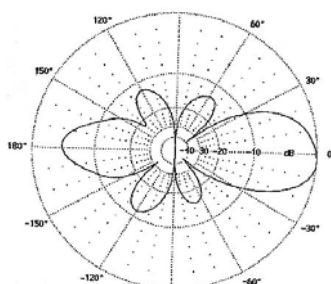
Type		BO 140	BO 160
Frequency range	MHz	135 ÷ 149	148 ÷ 174
Gain	dBi	4.5	
Radiation pattern		offset (omnidirectional with shift axis)	
Polarization		vertical	
Impedance	Ω	50	
VSWR		< 1.6	
Maximum input power	W	150	
Grounding		all metal parts of antenna including mounting kit are DC grounded	
Material of antenna		lacquered aluminium alloy, plastic, stainless steel	
Antenna holder	mm	RCAK 400 52 – \varnothing 35 ÷ 76 (standard)	
		RCAK 400 44 – \varnothing 60 ÷ 90	
		RCK 100 001 – \varnothing 90 ÷ 120	
Material of holder		aluminium alloy, hot-dip zinc steel; all screws and nuts: stainless steel	
Weight of antenna / holder	kg	0.65 / 0.5	
Maximum wind velocity	km/h	160	
Wind load (at 160 km/h)	N	57	
Dimensions l × h	mm	505 × 926	610 × 848
Connector type		N female	

Description

BG 162 omnidirectional gain antenna is designed for mobile and data radio networks.



Radiation pattern – H plane



Radiation pattern – E plane

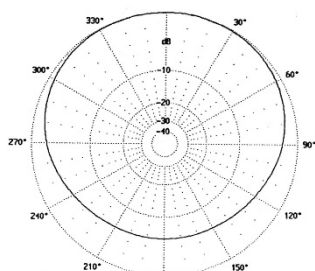


Technical Specifications

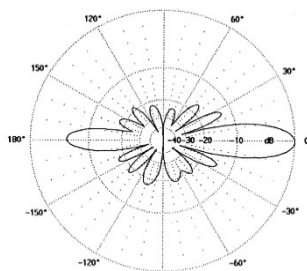
Type	BG 162	
Frequency range	MHz	150 ÷ 174
Gain in front direction	dBi	6 ÷ 7
Radiation pattern – H plane	offset (omnidirectional with shift axis)	
Polarization	vertical	
Impedance	Ω	50
VSWR	< 1.5	
Maximum input power	W	100
Grounding	all metal parts of antenna including mounting kit are DC grounded	
Material of antenna	aluminium alloy, plastic, stainless steel	
Antenna holder (2 pcs)	mm	ADV 60/76 – \varnothing 35 ÷ 76 (standard)
		ADV 60/120 – \varnothing 76 ÷ 120
		ADV 60/180 – \varnothing 120 ÷ 180
Material of holder	aluminium alloy, hot-dip zinc steel; all screws and nuts: stainless steel	
Weight of antenna / holders	kg	4.8 / 0.6 + 0.6
Maximum wind velocity	km/h	150
Dimensions l × h	mm	320 × 2400
Connector type	N female	

Description

BG 164 omnidirectional gain antenna is designed for mobile and data radio networks.



Radiation pattern – H plane

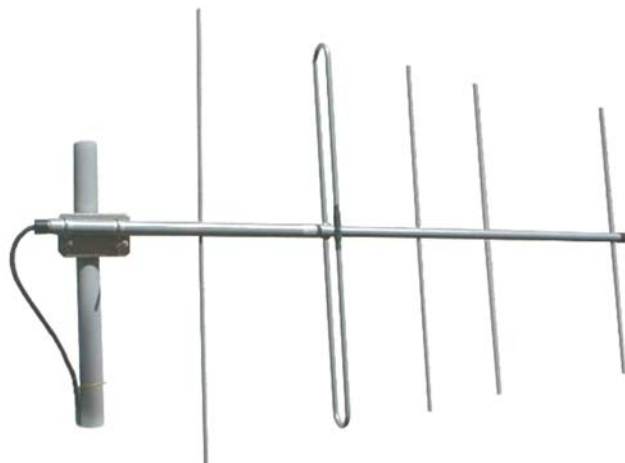


Radiation pattern – E plane



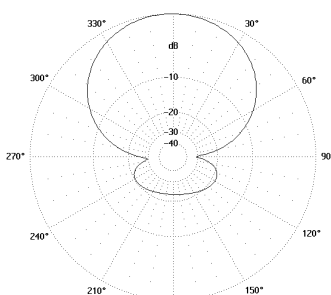
Technical Specifications

Type	BG 164	
Frequency range	MHz	150 ÷ 174
Gain in front direction	dBi	9.7 ÷ 10.4
Radiation pattern – H plane	offset (omnidirectional with shift axis)	
Polarization	vertical	
Impedance	Ω	50
VSWR	< 1.5	
Maximum input power	W	100
Grounding	all metal parts of antenna including mounting kit are DC grounded	
Material of antenna	aluminium alloy, plastic, stainless steel	
Antenna holder (2 pcs)	mm	ADV 60/76 – \varnothing 35 ÷ 76 (standard)
		ADV 60/120 – \varnothing 76 ÷ 120
		ADV 60/180 – \varnothing 120 ÷ 180
Material of holder	aluminium alloy, hot-dip zinc steel; all screws and nuts: stainless steel	
Weight of antenna / holders	kg	12.8 / 0.6 + 0.6
Maximum wind velocity	km/h	150
Dimensions l × h	mm	320 × 5300
Connector type	N female	

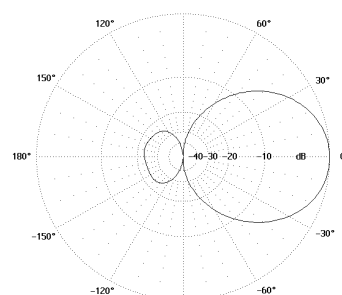
BD 165 A
BD 165 B
BD 165 C
BD 165 S
BD 165 Z


Description

BD 165 directional base antenna is designed for mobile and data radio networks.



Radiation pattern – H plane



Radiation pattern – E plane

Technical Specifications

Type		BD 165 A	BD 165 B	BD 165 C	BD 165 S	BD 165 Z
Frequency range	MHz	150 ÷ 158	157 ÷ 166	165 ÷ 174	155 ÷ 165	146 ÷ 153
Type of antenna		YAGI				
Gain	dBi	9.5				
Radiation pattern		directional				
Beamwidth – H plane	°	86 ÷ 92				
Beamwidth – E plane	°	60 ÷ 64				
Front-to-back ratio	dB	19 ÷ 22				
Polarization		vertical				
Impedance	Ω	50				
VSWR		< 1.5				
Maximum input power	W	200				
Grounding		all metal parts of antenna including mounting kit are DC grounded				
Material of antenna		lacquered aluminium alloy, plastic, stainless steel				
Antenna holder	mm	RCAK 400 52 – Ø 35 ÷ 76 (standard)				
		RCAK 400 44 – Ø 60 ÷ 90				
		RCK 100 001 – Ø 90 ÷ 120				
Material of holder		aluminium alloy, hot-dip zinc steel; all screws and nuts: stainless steel				
Weight of antenna / holder	kg	1.4 / 0.5				
Maximum wind velocity	km/h	160				
Wind load (at 160 km/h)	N	132				136
Dimensions l × h	mm	1683 × 995	1585 × 949	1514 × 904	1520 × 956	1726 × 1028
Connector type		N female				



Description

BO 400 omnidirectional base antenna is designed for mobile and data radio networks.

Antenna is mounted to different diameters of masts by separately ordered antenna holders. Antenna holders are made of stainless or hot-dip zinc steel. They are fastened to the masts by stainless U-bolts and nuts. Antenna can be mounted to any position on the mast.

Technical Specifications

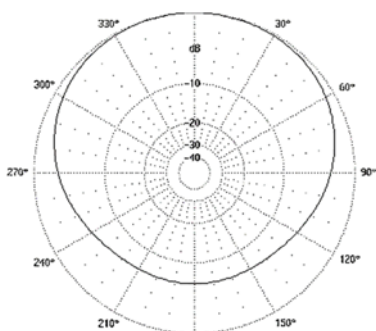
Type	BO 400	
Frequency range	MHz	400 ÷ 470
Gain in front / back direction *	dBi	4.7 / -3.3
Gain in side direction (90°, 270°) **	dBi	4,6
Radiation pattern (at * / **)	offset (omnidirectional with shift axis) / elliptic	
Polarization	vertical	
Impedance	Ω	50
VSWR	< 1.5	
Maximum input power	W	200
Grounding	all metal parts of antenna including mounting kit are DC grounded	
Material of antenna	lacquered aluminium alloy, plastic, stainless steel	
Antenna holder	mm	RCAK 400 43 – ∅ 35 ÷ 76 (standard)
		RCAK 400 53 – ∅ 60 ÷ 90
		RCK 100 000 – ∅ 90 ÷ 120
Material of holder	aluminium alloy, hot-dip zinc steel; all screws and nuts: stainless steel	
Weight of antenna / holder	kg	0.7 / 0.5
Maximum wind velocity	km/h	160
Wind load (at 160 km/h)	N	30
Dimensions l × h	mm	580 × 310
Connector type	N female	

* Distance (L) from the mast $\lambda/4$ (~ 165 mm)

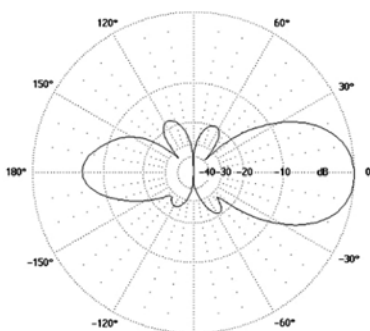
** Distance (L) from the mast $\lambda/2$ (~ 330 mm)

Description

BG 402 omnidirectional gain antenna is designed for mobile and data radio networks.



Radiation pattern – H plane



Radiation pattern – E plane

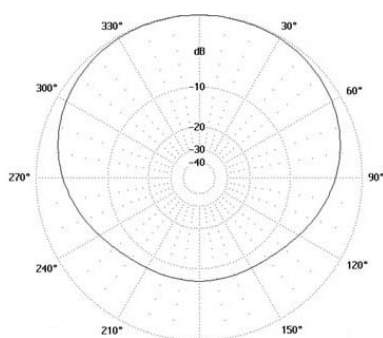


Technical Specifications

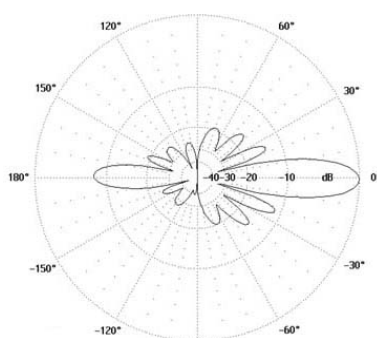
Type	BG 402	
Frequency range	MHz	400 ÷ 470
Gain in front direction	dBi	8
Radiation pattern – H plane	offset (omnidirectional with shift axis)	
Beamwidth – E plane	°	30 ÷ 40
Polarization	vertical	
Impedance	Ω	50
VSWR	< 1.5	
Maximum input power	W	150
Grounding	all metal parts of antenna including mounting kit are DC grounded	
Material of antenna	lacquered aluminium alloy, plastic, stainless steel	
Antenna holder (2 pcs)	mm	RCK 100 068 – Ø 35 ÷ 76 (standard)
		RCK 100 075 – Ø 76 ÷ 120
		RCK 100 076 – Ø 120 ÷ 180
Material of holder	aluminium alloy, hot-dip zinc steel; all screws and nuts: stainless steel	
Weight of antenna / holders	kg	2.7 / 0.6 + 0.6
Maximum wind velocity	km/h	160
Wind load (at 160 km/h)	N	120
Dimensions l × h	mm	220 × 1600
Connector type	N female	

Description

BG 404 omnidirectional gain antenna is designed for mobile and data radio networks.



Radiation pattern – H plane

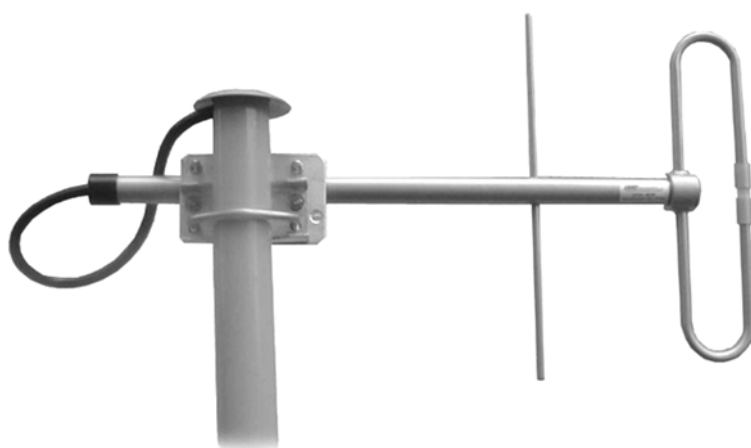


Radiation pattern – E plane

Technical Specifications

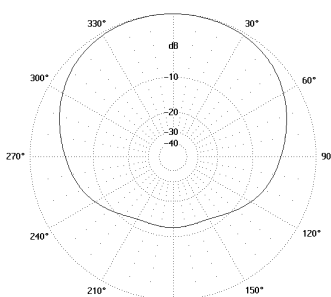
Type	BG 404	
Frequency range	MHz	400 ÷ 470
Gain in front direction	dBi	11.2
Radiation pattern – H plane	offset (omnidirectional with shift axis)	
Beamwidth – E plane	°	13
Polarization	vertical	
Impedance	Ω	50
VSWR	< 1.5	
Maximum input power	W	150
Grounding	all metal parts of antenna including mounting kit are DC grounded	
Material of antenna	lacquered aluminium alloy, plastic, stainless steel	
Antenna holder (2 pcs)	mm	RCK 100 068 – Ø 35 ÷ 76 (standard)
		RCK 100 075 – Ø 76 ÷ 120
		RCK 100 076 – Ø 120 ÷ 180
Material of holder	aluminium alloy, hot-dip zinc steel; all screws and nuts: stainless steel	
Weight of antenna / holders	kg	3.2 / 0.6 + 0.6
Maximum wind velocity	km/h	160
Wind load (at 160 km/h)	N	246
Dimensions l × h	mm	226 × 2600
Connector type	N female	



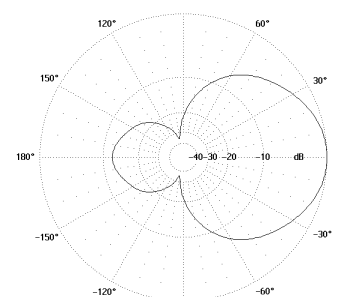


Description

BD 460 and BD 460A directional antennas are designed for mobile and data radio networks.



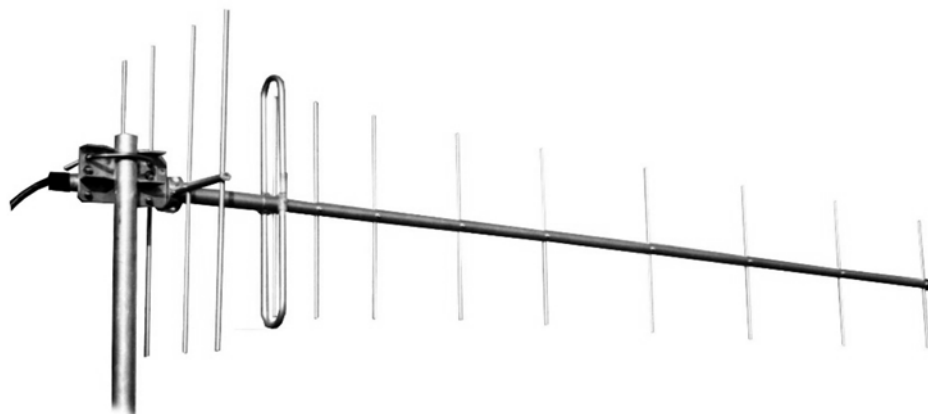
Radiation pattern – H plane



Radiation pattern – E plane

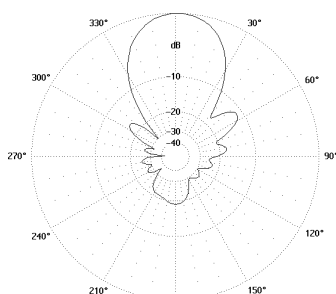
Technical Specifications

Type		BD 460	BD 460A
Frequency range	MHz	440 ÷ 470	400 ÷ 430
Type of antenna		YAGI	
Gain	dBi	5.6	
Radiation pattern		directional	
Beamwidth – H plane	°	140 ÷ 180	
Beamwidth – E plane	°	70	
Front-to-back ratio	dB	12	
Polarization		vertical	
Impedance	Ω	50	
VSWR		< 1.5	
Maximum input power	W	150	
Grounding		all metal parts of antenna including mounting kit are DC grounded	
Material of antenna		lacquered aluminium alloy, plastic, stainless steel	
Antenna holder	mm	RCAK 400 43 – Ø 35 ÷ 76 (standard)	
		RCAK 400 53 – Ø 60 ÷ 90	
		RCK 100 000 – Ø 90 ÷ 120	
Material of holder		aluminium alloy, hot-dip zinc steel; all screws and nuts: stainless steel	
Weight of antenna / holder	kg	0.8 / 0.5	
Maximum wind velocity	km/h	160	
Wind load (at 160 km/h)	N	36	
Dimensions l × h	mm	576 × 335	597 × 364
Connector type		N female	

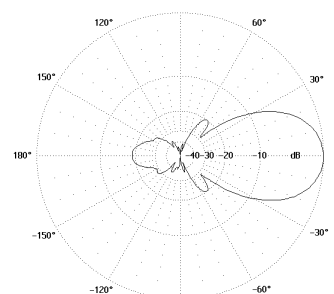


Description

BD 401 and BD 401A directional base antennas are designed for mobile and data radio networks.



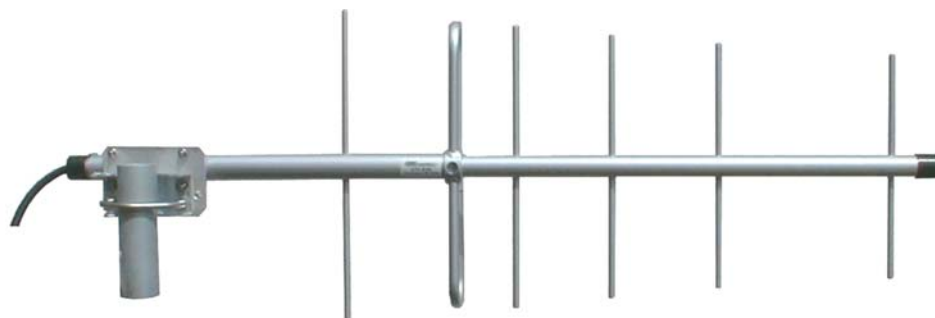
Radiation pattern – H plane



Radiation pattern – E plane

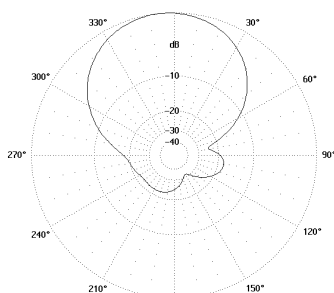
Technical Specifications

Type		BD 401	BD 401A
Frequency range	MHz	440 ÷ 470	405 ÷ 435
Type of antenna		YAGI	
Gain	dBi	14	
Radiation pattern		directional	
Beamwidth – H plane	°	42 ÷ 52	
Beamwidth – E plane	°	39 ÷ 51	
Front-to-back ratio	dB	18 ÷ 26	
Polarization		vertical	
Impedance	Ω	50	
VSWR		< 1.5	
Maximum input power	W	150	
Grounding		all metal parts of antenna including mounting kit are DC grounded	
Material of antenna		lacquered aluminium alloy, plastic, stainless steel	
Antenna holder	mm	RCAK 400 43 – Ø 35 ÷ 76 (standard)	
		RCAK 400 53 – Ø 60 ÷ 90	
		RCK 100 000 – Ø 90 ÷ 120	
Material of holder		aluminium alloy, hot-dip zinc steel; all screws and nuts: stainless steel	
Weight of antenna / holder	kg	1.9 / 0.5	
Maximum wind velocity	km/h	160	
Wind load (at 160 km/h)	N	98	106
Dimensions l × h	mm	1798 × 310	1926 × 335
Connector type		N female	

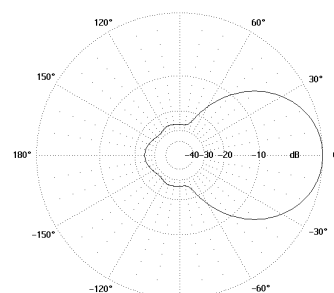


Description

BD 402 and BD 402A directional base antennas are designed for mobile and data radio networks.



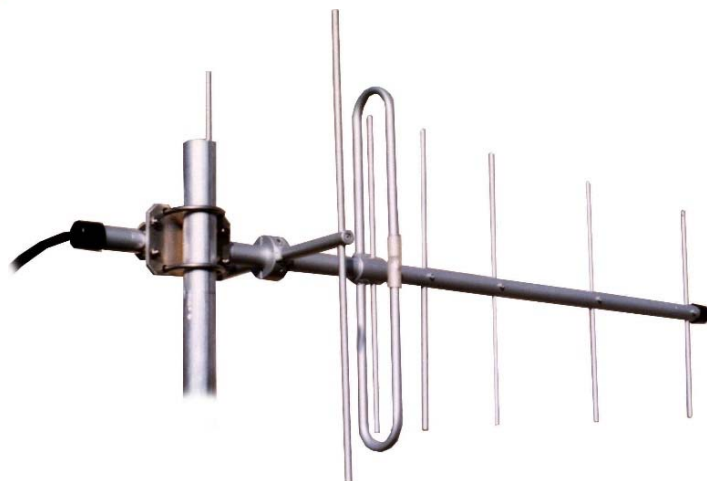
Radiation pattern – H plane



Radiation pattern – E plane

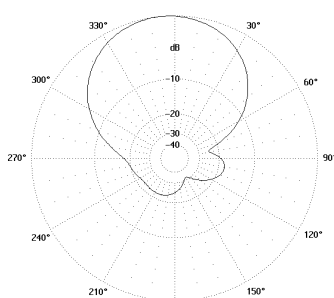
Technical Specifications

Type		BD 402	BD 402A
Frequency range	MHz	440 ÷ 470	400 ÷ 430
Type of antenna		YAGI	
Gain	dBi	10	
Radiation pattern		directional	
Beamwidth – H plane	°	71 ÷ 80	
Beamwidth – E plane	°	53 ÷ 58	
Front-to-back ratio	dB	18 ÷ 20	
Polarization		vertical	
Impedance	Ω	50	
VSWR		< 1.5	
Maximum input power	W	150	
Grounding		all metal parts of antenna including mounting kit are DC grounded	
Material of antenna		lacquered aluminium alloy, plastic, stainless steel	
Antenna holder	mm	RCAK 400 52 – Ø 35 ÷ 76 (standard)	
		RCAK 400 44 – Ø 60 ÷ 90	
		RCK 100 001 – Ø 90 ÷ 120	
Material of holder		aluminium alloy, hot-dip zinc steel; all screws and nuts: stainless steel	
Weight of antenna / holder	kg	1.2 / 0.5	
Maximum wind velocity	km/h	160	
Wind load (at 160 km/h)	N	60	
Dimensions l × h	mm	963 × 331	1003 × 359
Connector type		N female	

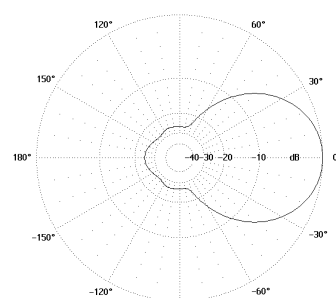


Description

BD 400 and BD 400A directional base antennas are designed for mobile and data radio networks.



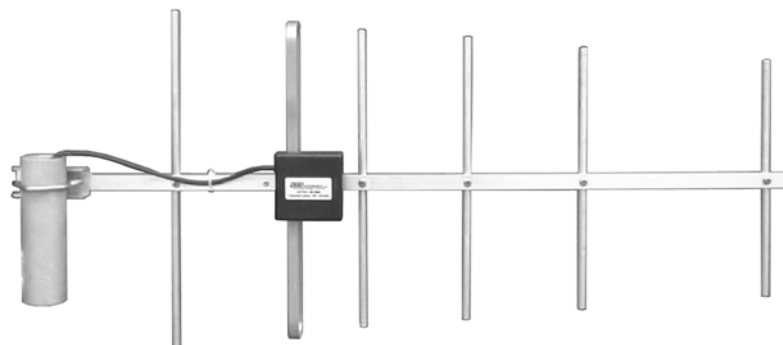
Radiation pattern – H plane



Radiation pattern – E plane

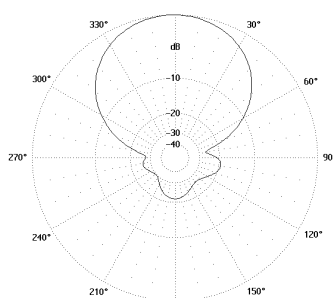
Technical Specifications

Type		BD 400	BD 400A
Frequency range	MHz	440 ÷ 470	410 ÷ 430
Type of antenna		YAGI	
Gain	dBi	9.5 ÷ 10.2	
Radiation pattern		directional	
Beamwidth – H plane	°	71 ÷ 80	74 ÷ 80
Beamwidth – E plane	°	53 ÷ 58	53 ÷ 56
Front-to-back ratio	dB	> 20	18 ÷ 20
Polarization		vertical	
Impedance	Ω	50	
VSWR		< 1.5	
Maximum input power	W	150	
Grounding		all metal parts of antenna including mounting kit are DC grounded	
Material of antenna		lacquered aluminium alloy, plastic, stainless steel	
Antenna holder	mm	RCAK 400 43 – Ø 35 ÷ 76 (standard)	
		RCAK 400 53 – Ø 60 ÷ 90	
		RCK 100 000 – Ø 90 ÷ 120	
Material of holder		aluminium alloy, hot-dip zinc steel; all screws and nuts: stainless steel	
Weight of antenna / holder	kg	1.2 / 0.5	
Maximum wind velocity	km/h	160	
Wind load (at 160 km/h)	N	54	59
Dimensions l × h	mm	861 × 302	904 × 332
Connector type		N female	

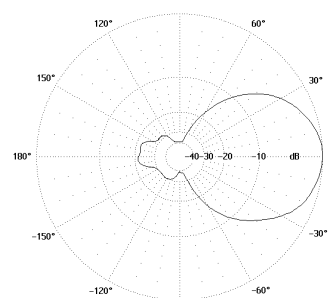


Description

BD 404 and BD 404A directional antennas are designed for mobile and data radio networks.



Radiation pattern – H plane



Radiation pattern – E plane

Technical Specifications

Type		BD 404	BD 404A
Frequency range	MHz	440 ÷ 470	400 ÷ 430
Type of antenna		YAGI	
Gain	dBi	10	
Radiation pattern		directional	
Beamwidth – H plane	°	70 ÷ 78	
Beamwidth – E plane	°	54 ÷ 56	
Front-to-back ratio	dB	18 ÷ 20	
Polarization		vertical	
Impedance	Ω	50	
VSWR		< 1.6	
Maximum input power	W	40	
Grounding		all metal parts of antenna including mounting kit are DC grounded	
Material of antenna		aluminium alloy, plastic, stainless steel	
Antenna holder	mm	RCK 100 006 – Ø 30 ÷ 50 (standard)	
Material of holder		aluminium alloy, hot-dip zinc steel; all screws and nuts: stainless steel	
Weight of antenna / holder	kg	0.5 / 0.1	
Dimensions l × h	mm	780 × 326	823 × 359
Connector type		N female	

Note:

Antennas for mounting on poles with diameter 35 ÷ 76 mm must be ordered with designation **BD 404 /76** or **BD 404A /76**.



BASE DIRECTIONAL ANTENNA WITH FIBERGLASS RADOME

BD 410

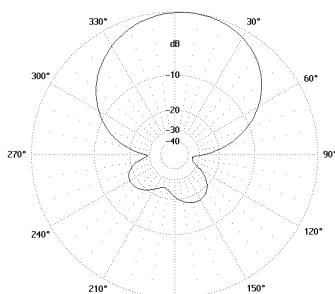
BD 410A

BD 410AS

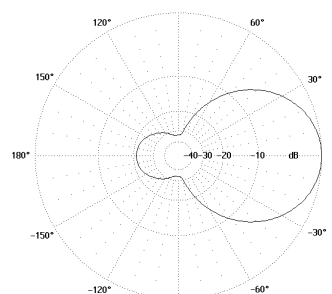


Description

BD 410 directional base antenna is designed for mobile and data radio networks.



Radiation pattern – H plane



Radiation pattern – E plane

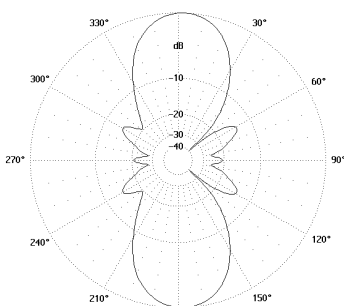
Technical Specifications

Type		BD 410	BD 410A	BD 410AS
Frequency range	MHz	440 ÷ 470	410 ÷ 430	400 ÷ 430
Type of antenna		YAGI		
Gain	dBi	9.5		9.8
Radiation pattern		directional		
Beamwidth – H plane	°	75 ÷ 90		70 ÷ 78
Beamwidth – E plane	°	60		54 ÷ 56
Front-to-back ratio	dB	19 ÷ 27		18 ÷ 20
Polarization		vertical		
Impedance	Ω	50		
VSWR		< 1.5		< 1.6
Maximum input power	W	150		40
Grounding		all metal parts of antenna including mounting kit are DC grounded		
Material of antenna		aluminium alloy, hot-dip zinc steel, fiberglass		
Antenna holder (2 pcs)	mm	RCAF 300 126 – Ø 44 ÷ 76		
Material of holder		aluminium alloy, hot-dip zinc steel; all screws and nuts: stainless steel		
Weight of antenna / holder	kg	4.5 / 1.6 + 1.6		
Maximum wind velocity	km/h	160		
Wind load (at 160 km/h)	N	360		
Dimensions l × h	mm	610 × 500		
Connector type		N or 7/16 – female		

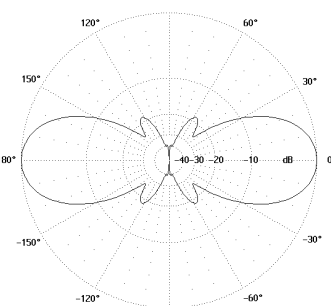


Description

BD 420 bidirectional base antenna is designed for mobile and data radio networks.



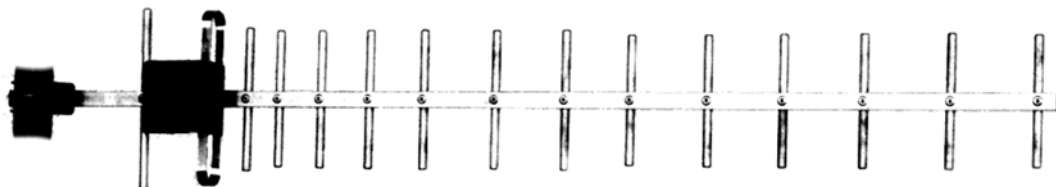
Vyžařovací diagram v rovině H



Vyžařovací diagram v rovině E

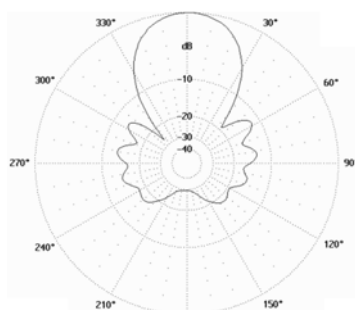
Technical Specifications

Type	BD 420	
Frequency range	MHz	457 ÷ 469
Type of antenna	YAGI	
Gain	dBi	10,5
Radiation pattern	bidirectional (0°, 180°)	
Beamwidth – H plane	°	43
Beamwidth – E plane	°	37
Polarization	vertical	
Impedance	Ω	50
VSWR	< 1.5	
Maximum input power	W	100
Grounding	all metal parts of antenna including mounting kit are DC grounded	
Material of antenna	lacquered aluminium alloy, plastic, stainless steel	
Antenna holder	mm	RCAK 400 44 – Ø 60 ÷ 90 (standard)
Material of holder	aluminium alloy, hot-dip zinc steel; all screws and nuts: stainless steel	
Weight of antenna / holder	kg	2.4 / 0.6
Maximum wind velocity	km/h	160
Wind load (at 160 km/h)	N	107
Dimensions l × h	mm	2372 × 616
Connector type	N female	

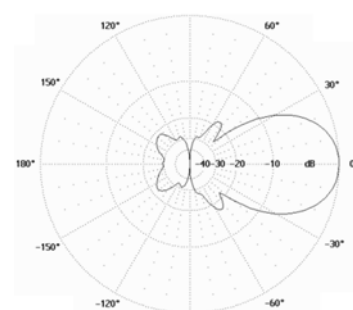


Description

BD 811 LTE directional antenna is designed for mobile and data radio networks.



Radiation pattern – H plane



Radiation pattern – E plane

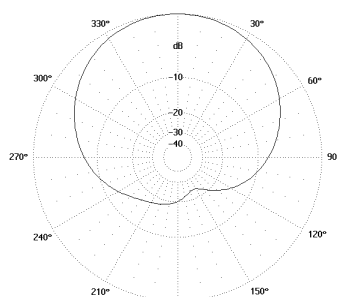
Technical Specifications

Type	BD 811 LTE	
Frequency range	MHz	791 ÷ 862 (LTE 800)
Type of antenna	YAGI	
Gain	dBi	13
Radiation pattern	directional	
Beamwidth – H plane	°	37
Beamwidth – E plane	°	34
Front-to-back ratio	dB	> 20
Polarization	vertical	
Impedance	Ω	50
VSWR	< 1.5	
Maximum input power	W	40
Grounding	all metal parts of antenna including mounting kit are DC grounded	
Material of antenna	aluminium alloy, plastic, stainless steel	
Antenna holder	mm	RCK 100 006 – Ø 30 ÷ 50 (standard)
Material of holder	aluminium alloy, hot-dip zinc steel; all screws and nuts: stainless steel	
Weight of antenna / holder	kg	0.7 / 0.1
Dimensions l × h	mm	1020 × 242
Connector type	N, FME, SMA – female	

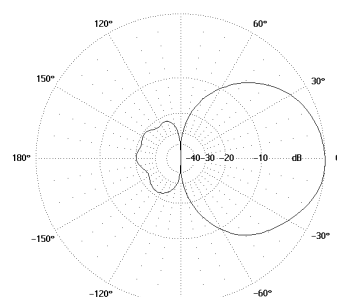


Description

BD 907 and BD 907A directional antennas are designed for mobile and data radio networks.



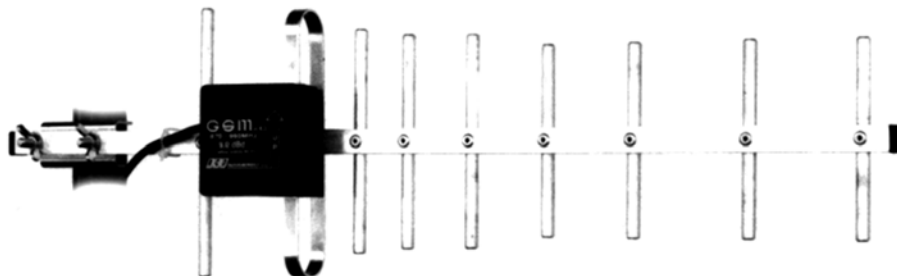
Radiation pattern – H plane



Radiation pattern – E plane

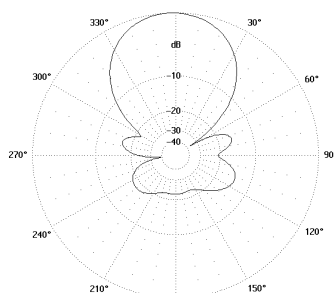
Technical Specifications

Type		BD 907	BD 907A
Frequency range	MHz	870 ÷ 960 (GSM 900)	845 ÷ 894
Type of antenna		YAGI	
Gain	dBi	7.2	
Radiation pattern		directional	
Beamwidth – H plane	°	105	
Beamwidth – E plane	°	65	
Front-to-back ratio	dB	17 ÷ 25	
Polarization		vertical	
Impedance	Ω	50	
VSWR		< 1.8	
Maximum input power	W	40	
Grounding		all metal parts of antenna including mounting kit are DC grounded	
Material of antenna		aluminium alloy, plastic, stainless steel	
Antenna holder	mm	RCK 100 006 – Ø 30 ÷ 50 (standard)	
Material of holder		aluminium alloy, hot-dip zinc steel; all screws and nuts: stainless steel	
Weight of antenna / holder	kg	0.3 / 0.1	
Dimensions l × h	mm	283 × 170	283 × 180
Connector type		N, FME, mini UHF, ... – female	

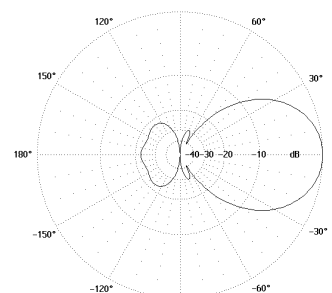


Description

BD 910 and BD 910A directional antennas are designed for mobile and data radio networks.



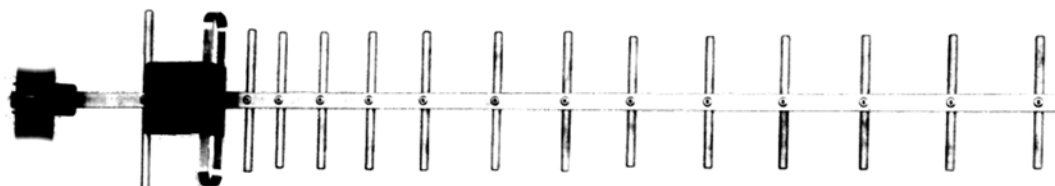
Radiation pattern – H plane



Radiation pattern – E plane

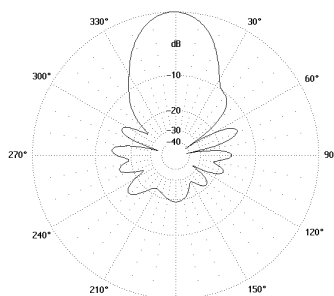
Technical Specifications

Type		BD 910	BD 910A
Frequency range	MHz	870 ÷ 960 (GSM 900)	845 ÷ 894
Type of antenna		YAGI	
Gain	dBi	11	
Radiation pattern		directional	
Beamwidth – H plane	°	50 ÷ 62	
Beamwidth – E plane	°	46 ÷ 53	
Front-to-back ratio	dB	17 ÷ 22	
Polarization		vertical	
Impedance	Ω	50	
VSWR		< 1.8	
Maximum input power	W	40	
Grounding		all metal parts of antenna including mounting kit are DC grounded	
Material of antenna		aluminium alloy, plastic, stainless steel	
Antenna holder	mm	RCK 100 006 – Ø 30 ÷ 50 (standard)	
Material of holder		aluminium alloy, hot-dip zinc steel; all screws and nuts: stainless steel	
Weight of antenna / holder	kg	0.4 / 0.1	
Dimensions l × h	mm	600 × 170	600 × 180
Connector type		N, FME, mini UHF, ... – female	

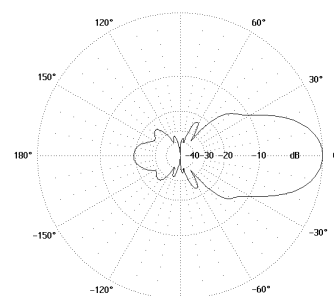


Description

BD 911 and BD 911A directional antennas are designed for mobile and data radio networks.



Radiation pattern – H plane



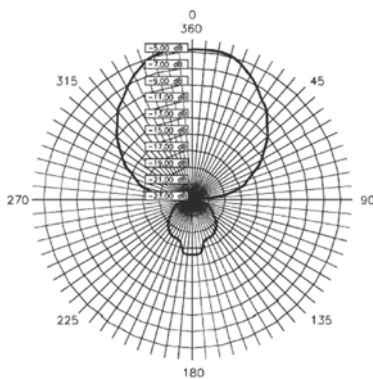
Radiation pattern – E plane

Technical Specifications

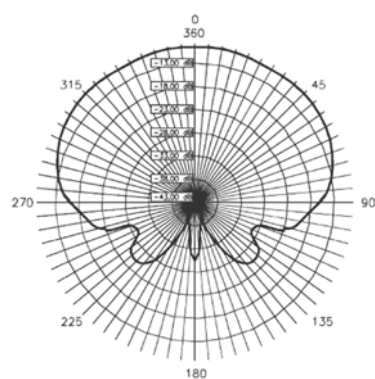
Type		BD 911	BD 911A
Frequency range	MHz	870 ÷ 960 (GSM 900)	845 ÷ 894
Type of antenna		YAGI	
Gain	dBi	14	
Radiation pattern		directional	
Beamwidth – H plane	°	38 ÷ 43	
Beamwidth – E plane	°	34 ÷ 39	
Front-to-back ratio	dB	> 20	
Polarization		vertical	
Impedance	Ω	50	
VSWR		< 1.8	
Maximum input power	W	40	
Grounding		all metal parts of antenna including mounting kit are DC grounded	
Material of antenna		aluminium alloy, plastic, stainless steel	
Antenna holder	mm	RCK 100 006 – Ø 30 ÷ 50 (standard)	
Material of holder		aluminium alloy, hot-dip zinc steel; all screws and nuts: stainless steel	
Weight of antenna / holder	kg	0.5 / 0.1	
Dimensions l × h	mm	1020 × 176	1020 × 184
Connector type		N, FME – female	

Description

BD 920 directional antenna is designed for GSM and UMTS radio networks.



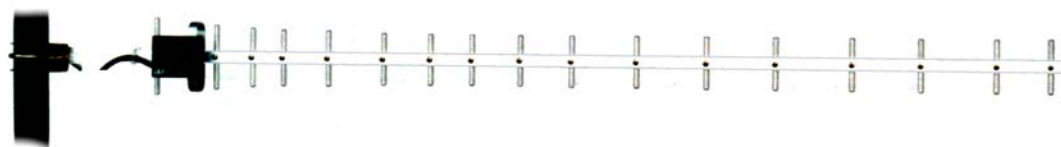
Radiation pattern – H plane
(915 MHz)



Radiation pattern – H plane
(1800 MHz / UMTS)

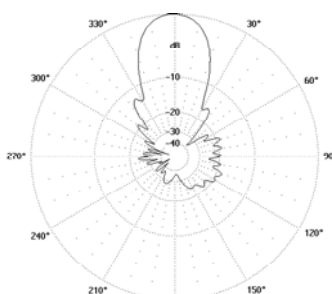
Technical Specifications

Type	BD 920			
Frequency range	MHz	GSM		UMTS
		824 ÷ 960	1710 ÷ 1880	1920 ÷ 1990 (uplink) 2110 ÷ 2170 (downlink) 1900 ÷ 1920 (uplink) 2010 ÷ 2025 (downlink)
Gain	dBi	12		
Radiation pattern		directional		
Polarization		vertical		
Impedance	Ω	50		
VSWR		< 1.5	< 2	< 2
Maximum input power	W	50		
Material of antenna		hot-dip zinc steel, fiberglass, brass, aluminium alloy		
Antenna holder	mm	∅ 20 ÷ 55		
Material of holder		zinc steel		
Weight of antenna / holder	kg	0.7 / 0.1		
Maximum wind velocity	km/h	120		
Dimensions w × h × d	mm	230 × 170 × 70		
Connector type		N female – panel type		

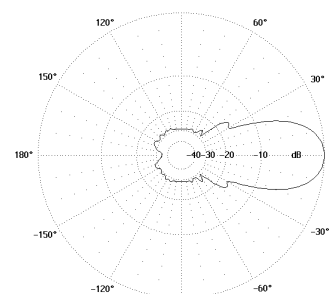


Description

BD 1G8 and BD 1G8A directional antennas are designed for mobile and data radio networks.



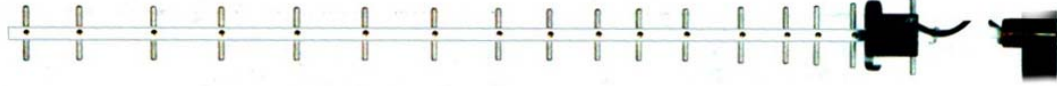
Radiation pattern – H plane



Radiation pattern – E plane

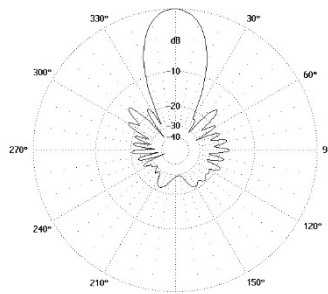
Technical Specifications

Type		BD 1G8	BD 1G8A
Frequency range	MHz	1880 ÷ 1900 (DECT)	1710 ÷ 1880 (GSM 1800)
Type of antenna		YAGI	
Gain	dBi	16 ÷ 17	15 ÷ 17
Radiation pattern		directional	
Beamwidth – H plane	°	30 ÷ 31	30 ÷ 34
Beamwidth – E plane	°	29 ÷ 30	29 ÷ 32
Front-to-back ratio	dB	> 20	
Polarization		vertical	
Impedance	Ω	50	
VSWR		< 1,5	< 1,7
Maximum input power	W	40	
Grounding		all metal parts of antenna including mounting kit are DC grounded	
Material of antenna		aluminium alloy, plastic, stainless steel	
Antenna holder	mm	RCK 100 006 – Ø 30 ÷ 50 (standard)	
Material of holder		aluminium alloy, hot-dip zinc steel; all screws and nuts: stainless steel	
Weight of antenna / holder	kg	0.5 / 0.1	
Dimensions l × h	mm	1107 × 80	1137 × 80
Connector type		N, FME – female	

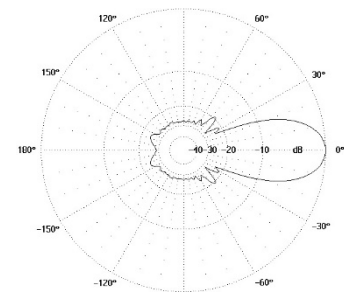


Description

BD 2G1 directional antenna is designed for mobile and data radio networks.



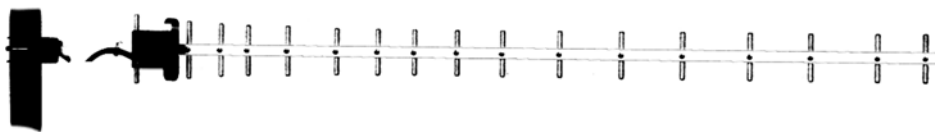
Radiation pattern – H plane



Radiation pattern – E plane

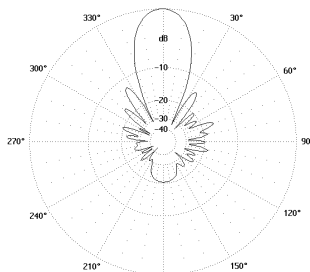
Technical Specifications

Type	BD 2G1	
Frequency range	MHz	1900 ÷ 2170 (UMTS)
Type of antenna		YAGI
Gain	dBi	14 ÷ 17
Radiation pattern		directional
Beamwidth – H plane	°	28 ÷ 40
Beamwidth – E plane	°	27 ÷ 36
Front-to-back ratio	dB	> 20
Polarization		vertical
Impedance	Ω	50
VSWR		< 1.5
Maximum input power	W	15
Grounding		all metal parts of antenna including mounting kit are DC grounded
Material of antenna		aluminium alloy, plastic, stainless steel
Antenna holder	mm	RCK 100 006 – Ø 30 ÷ 50
Material of holder		aluminium alloy, hot-dip zinc steel; all screws and nuts: stainless steel
Weight of antenna / holder	kg	0.5 / 0.1
Dimensions l × h	mm	950 × 85
Connector type		N, SMA – female

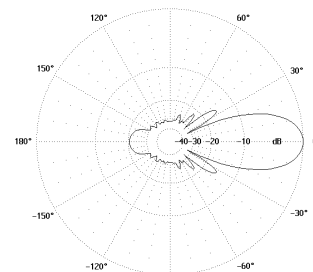


Description

BD 2G4 directional antenna is designed for mobile and data radio networks.



Radiation pattern – H plane

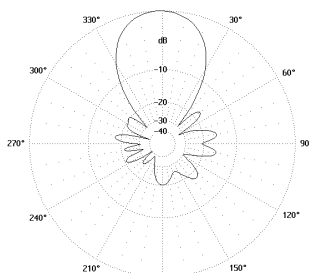


Radiation pattern – E plane

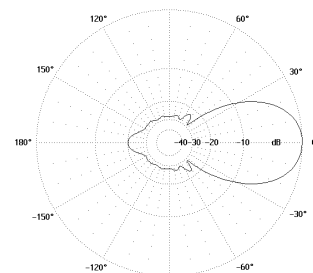


Description

BD 2G4S directional antenna is designed for mobile and data radio networks.



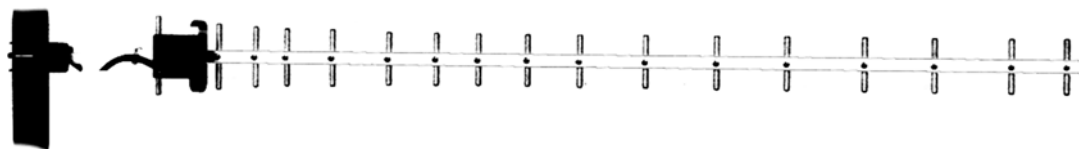
Radiation pattern – H plane



Radiation pattern – E plane

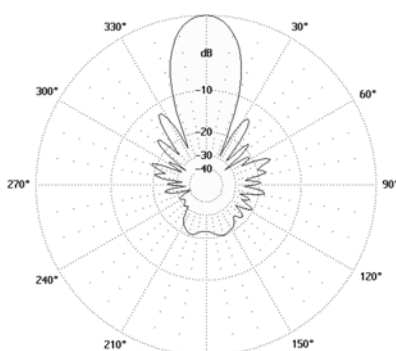
Technical Specifications

Type		BD 2G4	BD 2G4S
Frequency range	MHz	2400 ÷ 2500	
Type of antenna		YAGI	
Gain	dBi	16 ÷ 17	12,5 ÷ 13,5
Radiation pattern		directional	
Beamwidth – H plane	°	27 ÷ 29	42 ÷ 45
Beamwidth – E plane	°	25 ÷ 27	37 ÷ 42
Front-to-back ratio	dB	> 20	16 ÷ 20
Polarization		vertical	
Impedance	Ω	50	
VSWR		< 1,8	
Maximum input power	W	15	
Grounding		all metal parts of antenna including mounting kit are DC grounded	
Material of antenna		aluminium alloy, plastic, stainless steel	
Antenna holder	mm	RCK 100 006 – Ø 30 ÷ 50 (standard)	
Material of holder		aluminium alloy, hot-dip zinc steel; all screws and nuts: stainless steel	
Weight of antenna / holder	kg	0.5 / 0.1	0.3 / 0.1
Dimensions l × h	mm	900 × 62	471 × 62
Connector type		N, SMA, ... – female	

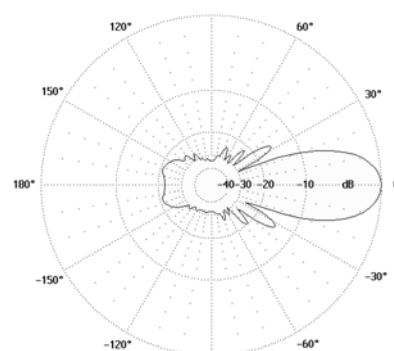


Description

BD 2G6 LTE directional antenna is designed for LTE mobile and data radio networks.



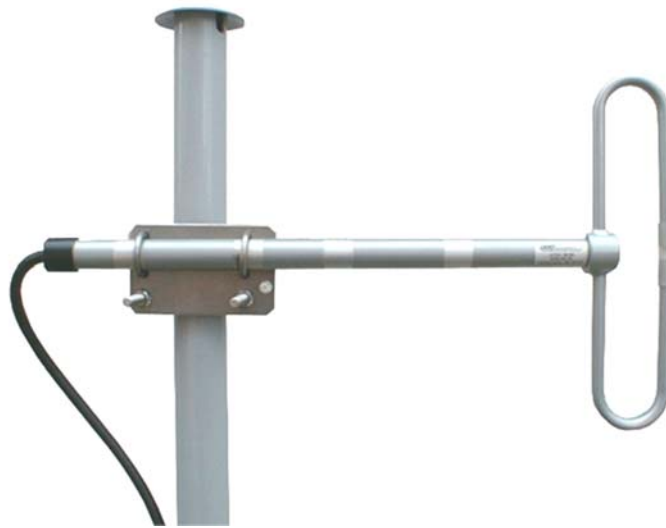
Radiation pattern – H plane



Radiation pattern – E plane

Technical Specifications

Type	BD 2G6 LTE	
Frequency range	MHz	2400 ÷ 2700
Type of antenna	YAGI	
Gain	dBi	16 ÷ 17
Radiation pattern	directional	
Beamwidth – H plane	°	22
Beamwidth – E plane	°	21
Front-to-back ratio	dB	> 20
Polarization	vertical	
Impedance	Ω	50
VSWR	< 1.5	
Maximum input power	W	40
Grounding	all metal parts of antenna including mounting kit are DC grounded	
Material of antenna	aluminium alloy, plastic, stainless steel	
Antenna holder	mm	RCK 100 006 – Ø 30 ÷ 50 (standard)
Material of holder	aluminium alloy, hot-dip zinc steel; all screws and nuts: stainless steel	
Weight of antenna / holder	kg	0.5 / 0.1
Dimensions l × h	mm	900 × 62
Connector type	N, SMA – female	



Description

BO 321 omnidirectional base antenna is designed for mobile and data radio networks.

Antenna is mounted to different diameters of masts by separately ordered antenna holders. Antenna holders are made of stainless or hot-dip zinc steel. They are fastened to the masts by stainless U-bolts and nuts. Antenna can be mounted to any position on the mast.

Technical Specifications

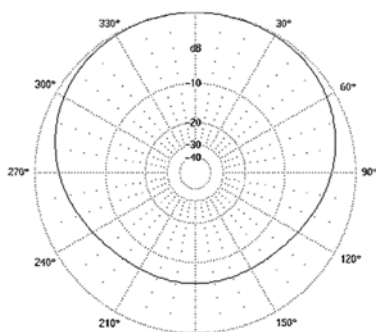
Type	BO 321	
Frequency range	MHz	380 ÷ 430
Gain in front / back direction *	dBi	3.2 / -4.2
Gain in side direction (90°, 270°) **	dBi	3.7
Radiation pattern (at * / **)	offset (omnidirectional with shift axis) / elliptic	
Polarization	vertical	
Impedance	Ω	50
VSWR	< 1.4	
Maximum input power	W	200
Grounding	all metal parts of antenna including mounting kit are DC grounded	
Material of antenna	lacquered aluminium alloy, plastic, stainless steel	
Antenna holder	mm	RCAK 400 43 – Ø 35 ÷ 76 (standard)
		RCAK 400 53 – Ø 60 ÷ 90
		RCK 100 000 – Ø 90 ÷ 120
Material of holder	aluminium alloy, hot-dip zinc steel; all screws and nuts: stainless steel	
Weight of antenna / holder	kg	0.7 / 0.5
Maximum wind velocity	km/h	160
Wind load (at 160 km/h)	N	31
Dimensions l × h	mm	580 × 362
Connector type	N female	

* Distance (L) from the mast $\lambda/4$ (~ 195 mm)

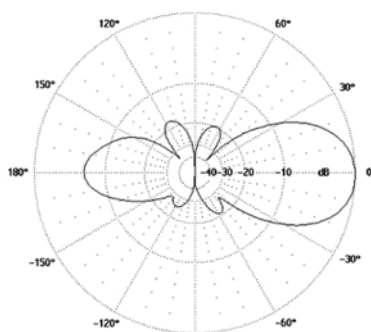
** Distance (L) from the mast $\lambda/2$ (~ 390 mm)

Description

BG 322 omnidirectional gain antenna is designed for mobile and data radio networks.



Radiation pattern – H plane



Radiation pattern – E plane



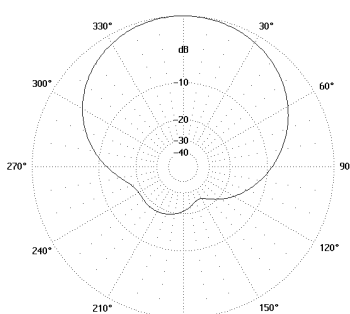
Technical Specifications

Type		BG 322
Frequency range	MHz	380 ÷ 425
Gain in front direction	dBi	8
Radiation pattern – H plane		offset (omnidirectional with shift axis)
Beamwidth – E plane	°	30 ÷ 40
Polarization		vertical
Impedance	Ω	50
VSWR		< 1.5
Maximum input power	W	150
Grounding		all metal parts of antenna including mounting kit are DC grounded
Material of antenna		lacquered aluminium alloy, plastic, stainless steel
Antenna holder (2 pcs)	mm	RCK 100 068 – Ø 35 ÷ 76 (standard)
		RCK 100 075 – Ø 76 ÷ 120
		RCK 100 076 – Ø 120 ÷ 180
Material of holder		aluminium alloy, hot-dip zinc steel; all screws and nuts: stainless steel
Weight of antenna / holders	kg	2.8 / 0.6 + 0.6
Maximum wind velocity	km/h	160
Wind load (at 160 km/h)	N	120
Dimensions l × h	mm	258 × 1650
Connector type		N female

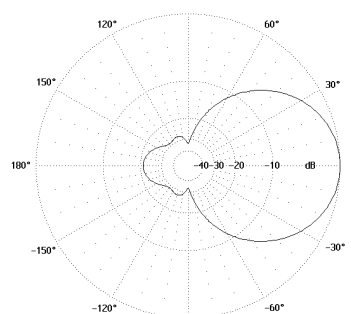


Description

BD 310 directional base antenna is designed for mobile and data radio networks.



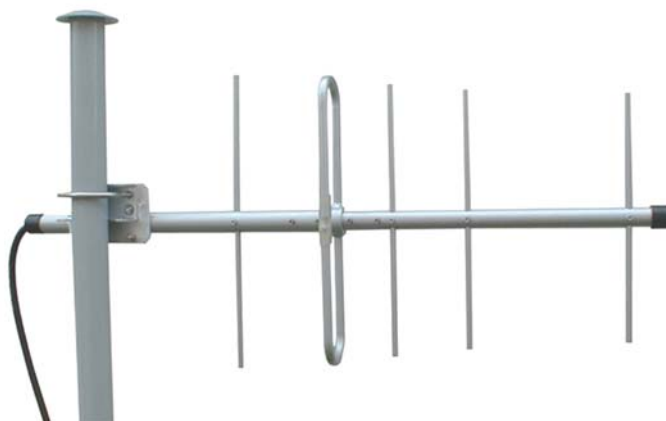
Radiation pattern – H plane



Radiation pattern – E plane

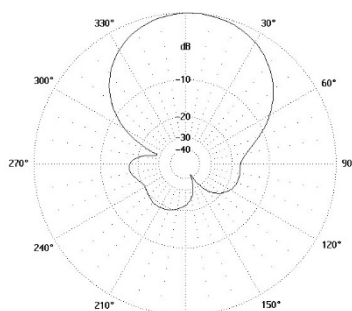
Technical Specifications

Type		BD 310
Frequency range	MHz	380 ÷ 400
Type of antenna		YAGI
Gain	dBi	8.5
Radiation pattern		directional
Beamwidth – H plane	°	100
Beamwidth – E plane	°	58
Front-to-back ratio	dB	20 ÷ 26
Polarization		vertical
Impedance	Ω	50
VSWR		< 1.5
Maximum input power	W	150
Grounding		all metal parts of antenna including mounting kit are DC grounded
Material of antenna		aluminium alloy, hot-dip zinc steel, fiberglass
Antenna holder (2 pcs)	mm	RCAF 300 126 – Ø 44 ÷ 76
Material of holder		aluminium alloy, hot-dip zinc steel; all screws and nuts: stainless steel
Weight of antenna / holders	kg	4.6 / 1.6 + 1.6
Maximum wind velocity	km/h	160
Wind load (at 160 km/h)	N	360
Dimensions l × h	mm	610 × 500
Connector type		N or 7/16 – female

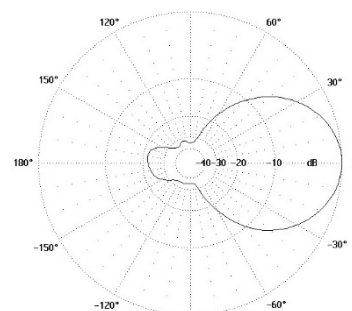


Description

BD 311 directional base antenna is designed for mobile and data radio networks.



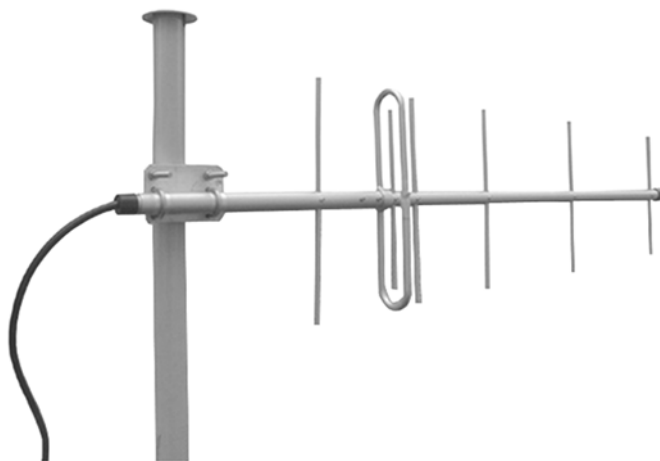
Radiation pattern – H plane



Radiation pattern – E plane

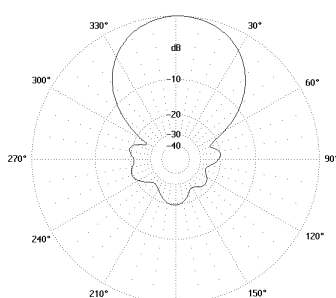
Technical Specifications

Type		BD 311
Frequency range	MHz	380 ÷ 395
Type of antenna		YAGI
Gain	dBi	9
Radiation pattern		directional
Beamwidth – H plane	°	80 ÷ 87
Beamwidth – E plane	°	54 ÷ 60
Front-to-back ratio	dB	18 ÷ 27
Polarization		vertical
Impedance	Ω	50
VSWR		< 1.5
Maximum input power	W	200
Grounding		all metal parts of antenna including mounting kit are DC grounded
Material of antenna		lacquered aluminium alloy, plastic, stainless steel
Antenna holder	mm	RCAK 400 52 – Ø 35 ÷ 76 (standard)
		RCAK 400 44 – Ø 60 ÷ 90
		RCK 100 001 – Ø 90 ÷ 120
Material of holder		aluminium alloy, hot-dip zinc steel; all screws and nuts: stainless steel
Weight of antenna / holder	kg	1.4 / 0.5
Maximum wind velocity	km/h	160
Wind load (at 160 km/h)	N	55
Dimensions l × h	mm	840 × 387
Connector type		N female

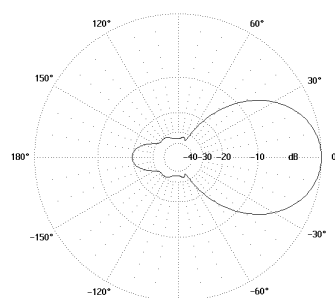


Description

BD 312 directional base antenna is designed for mobile and data radio networks.



Radiation pattern – H plane



Radiation pattern – E plane

Technical Specifications

Type		BD 312
Frequency range	MHz	380 ÷ 395
Type of antenna		YAGI
Gain	dBi	11
Radiation pattern		directional
Beamwidth – H plane	°	60 ÷ 65
Beamwidth – E plane	°	46 ÷ 50
Front-to-back ratio	dB	17.5 ÷ 24
Polarization		vertical
Impedance	Ω	50
VSWR		< 1.5
Maximum input power	W	200
Grounding		all metal parts of antenna including mounting kit are DC grounded
Material of antenna		lacquered aluminium alloy, plastic, stainless steel
Antenna holder	mm	RCAK 400 52 – Ø 35 ÷ 76 (standard)
		RCAK 400 44 – Ø 60 ÷ 90
		RCK 100 001 – Ø 90 ÷ 120
Material of holder		aluminium alloy, hot-dip zinc steel; all screws and nuts: stainless steel
Weight of antenna / holder	kg	1.4 / 0.5
Maximum wind velocity	km/h	160
Wind load (at 160 km/h)	N	78
Dimensions l × h	mm	1300 × 387
Connector type		N female

Description

VA 01 whip antenna is designed for assembly on the car roof or stationary installation with antenna counterpoise (steel ceiling, external antenna counterpoise, etc.).

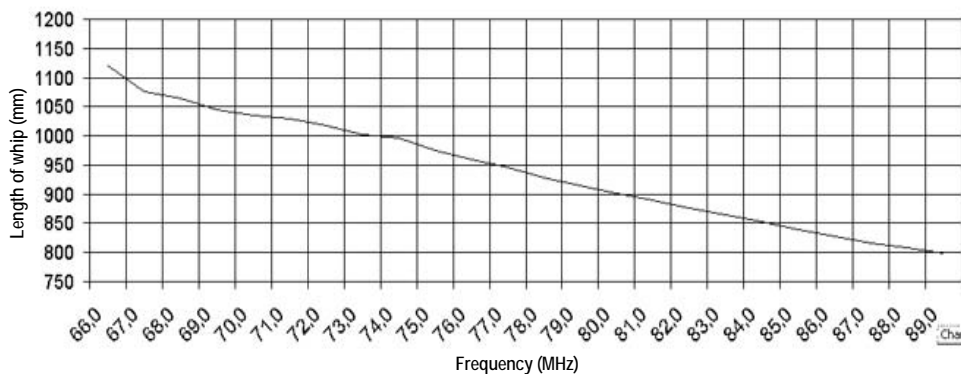
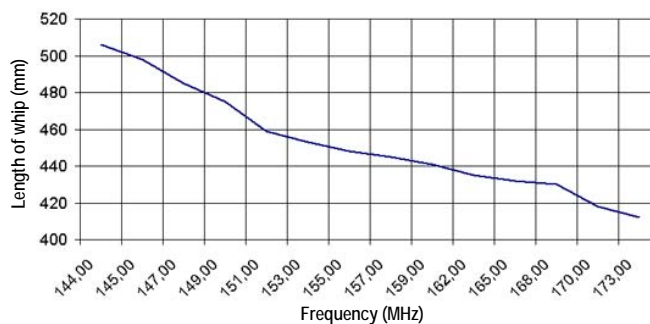
Technical Specifications

Type	VA 01	
Frequency range	MHz	66 ÷ 173
Gain	dBi	2
Radiation pattern	omnidirectional	
Length of antenna radiator	$\lambda / 4$	
Polarization	vertical	
Bandwidth	MHz	$\pm 5\%$ from center frequency
VSWR	< 1.5	
Impedance	Ω	50
Maximum input power	W	50
Material	brass, stainless steel, plastic	
Weight with cable	kg	0.35
Length of cable	m	3.5
Basic length of whip	mm	1150
Maximum wind velocity	km/h	240
Mounting hole	mm	$\varnothing 8.5$
Connector type	BNC, TNC, N, FME – male	



Note:

Antenna whip is necessary to be shorten to required working frequency according to antenna cutting chart.



Description

VA 02 whip antenna is designed for assembly on car roof or stationary installation with antenna counterpoise (steel ceiling, external antenna counterpoise, etc.).

Antenna is applicable to systems in frequency bands 136 ÷ 174 MHz, 400 ÷ 470 MHz, includes digital system TETRA.

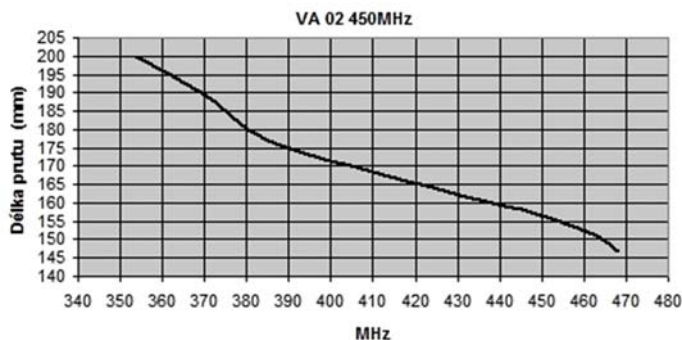
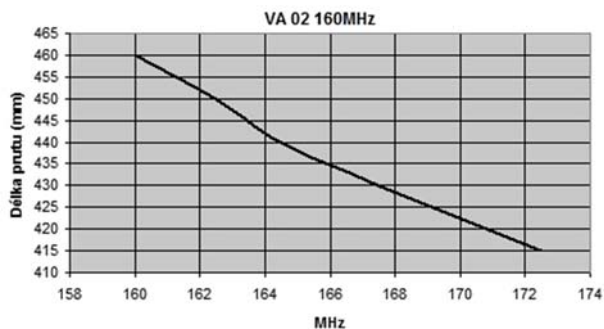
Technical Specifications

Type	VA 02	
Frequency range	MHz	136 ÷ 512
Gain	dBi	2
Radiation pattern	omnidirectional	
Length of antenna radiator	$\lambda / 4$	
Polarization	vertical	
Bandwidth	MHz	$\pm 5\%$ from center frequency
VSWR	< 1,5	
Impedance	Ω	50
Maximum input power	W	50
Material	brass, stainless steel, plastic	
Weight with cable	kg	0.2
Length of cable	m	3.5
Basic length of whip	mm	550
Mounting hole	mm	$\varnothing 8.5$
Connector type	BNC, TNC, N, FME – male	



Note:

Antenna whip is necessary to be shorten to required working frequency according to antenna cutting chart.



XL 3001
XL 3002
XL 3004
XL 3005
XL 3006

XL 3001

XL 3004

XL 3006

Technical Specifications

Type		XL 3001	XL 3002	XL 3004	XL 3005	XL 3006
Frequency range	GHz	DC ÷ 4				DC ÷ 1
VSWR		1 GHz: < 1.05 2 GHz: < 1.10 3 GHz: < 1.30 4 GHz: < 1.40				1 GHz: < 1.10
Maximum power	W	20		10		2
Impedance	Ω	50				
Material		aluminium, stainless steel				
Size with connector	mm	70	62	65	57	39
Size without connector	mm	43	43	38	38	–
Diameter	mm	∅ 50	∅ 50	∅ 40	∅ 40	∅ 22
Weight	g	230		125		35
Connector type		N male	N female	N male	N female	N male

Description

DH 80 / 4R duplexer is symmetric 4-cavity duplexer.

Heavy-duty mechanical construction allows use in both base radios and mobile radios.



Technical Specification

Type	DH 80 / 4R				
Frequency range	MHz	65 ÷ 78			
Duplex spacing	MHz	4 ÷ 13			
Bandwidth	MHz	0.25	0.5	0.75	1.0
Insertion loss max.	dB	1.0	1.0	1.0	1.0
Isolation min.	dB	60	55	45	40
Maximum input power	W	25 (50)			
Impedance	Ω	50			
VSWR		< 1.3			
Weight	kg	1.3 ÷ 1.4			
Dimensions w × h × d	mm	202 × 145 × 38			
Connectors type		N, BNC, TNC – female *)			

*) According to customer's requirement.



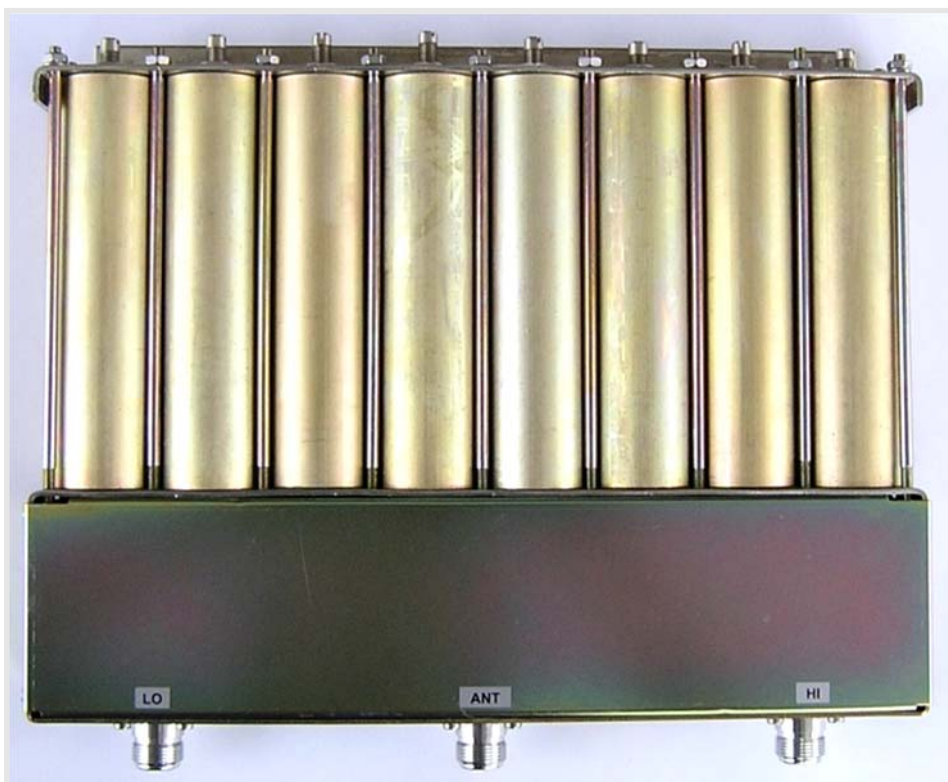
Description

DH 80 / 6R duplexer is symmetric 6-cavity duplexer. Heavy-duty mechanical construction allows use in both base radios and mobile radios.

Technical Specifications

Type	DH 80 / 6R							
Frequency range	MHz	60 ÷ 90				60 ÷ 85		
Duplex spacing	MHz	3				4 ÷ 6.5		
Bandwidth	MHz	0.25	0.5	0.75	1	0.5	1	1.5
Insertion loss max.	dB	1,5	1.5	1.7	1.9	1.3	1.5	1.7
Isolation min.	dB	75	70	65	60	70	65	60
Maximum input power	W	25 (50)						
Impedance	Ω	50						
VSWR		< 1.35				< 1.3		
Weight	kg	1.7 ÷ 1.8						
Dimensions w × h × d	mm	210 × 203 × 38						
Connectors type		N, BNC, TNC – female *)						

*) According to customer's requirement.



Description

DH 80 / 8R duplexer is symmetric 8-cavity duplexer. Heavy-duty mechanical construction allows use in both base radios and mobile radios.

Technical Specifications

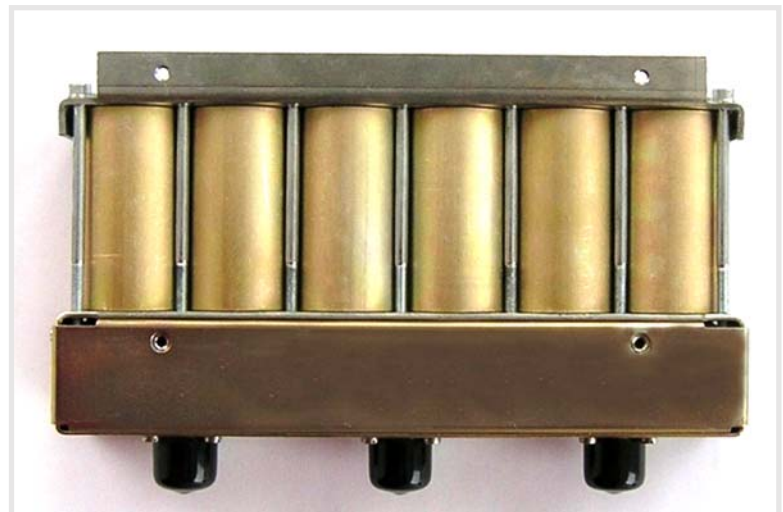
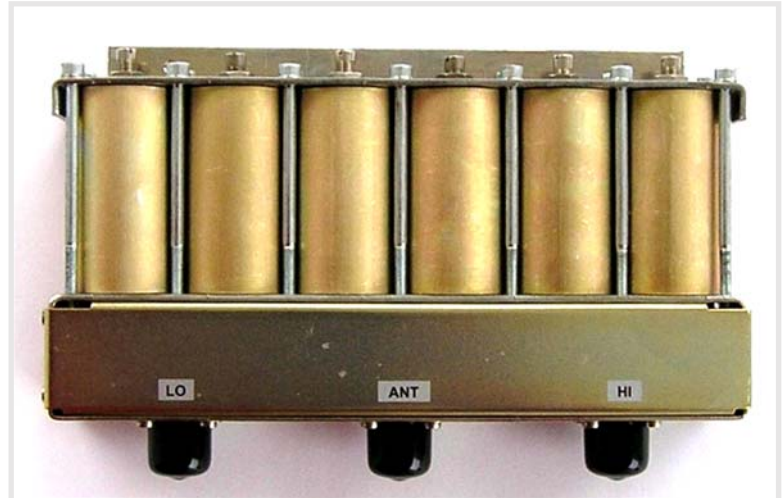
Type	DH 80 / 8R							
Frequency range	MHz	70 ÷ 90				70 ÷ 85		
Duplex spacing	MHz	3				4 ÷ 6.5		
Bandwidth	MHz	0.25	0.5	0.75	1	0.5	1	1.5
Insertion loss max.	dB	1.5	1.5	1.7	1.9	1.3	1.5	1.7
Isolation min.	dB	80	75	70	65	85	75	70
Maximum input power	W	45 (-30 ÷ +50 °C), 35 (-30 ÷ +70 °C)						
Impedance	Ω	50						
VSWR		< 1.35				< 1.3		
Weight	kg	1.7 ÷ 1.8						
Dimensions w × h × d	mm	275 × 225 × 38						
Connectors type		N, BNC, TNC, (SMA) – female *)						

*) According to customer's requirement.

Description

DH 160 / 6R duplexer is symmetric 6-cavity duplexer.

Heavy-duty mechanical construction allows use in both base radios and mobile radios.



Technical Specifications

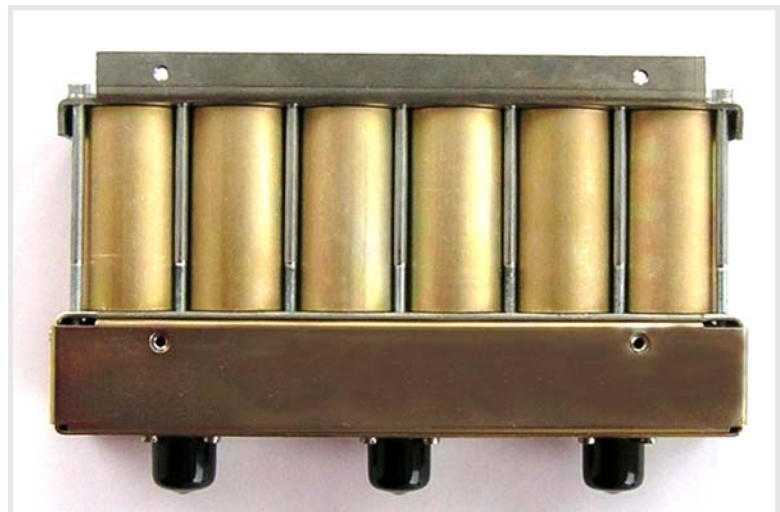
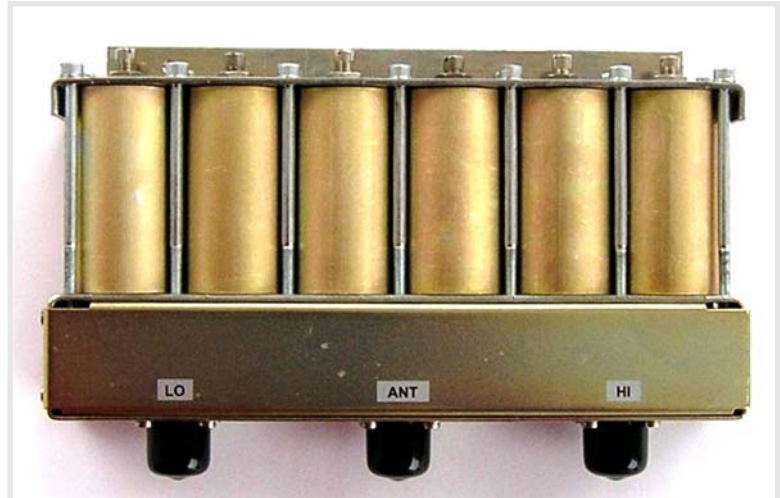
Type	DH 160 / 6R			
Frequency range	MHz	140 ÷ 175		
Duplex spacing	MHz	4.5 ÷ 6.5		
Bandwidth	MHz	0.5	1	1.5
Insertion loss max.	dB	1.3	1.5	1.7
Isolation min.	dB	70	65	60
Maximum input power	W	25 (50)		
Impedance	Ω	50		
VSWR		< 1.3		
Weight	kg	1.1 ÷ 1.2		
Dimensions w × h × d	mm	210 × 130 × 38		
Connectors type		N, BNC, TNC – female *)		

*) According to customer's requirement.

Description

DH 300 / 6R duplexer is symmetric 6-cavity duplexer.

Heavy-duty mechanical construction allows use in both base radios and mobile radios.



Technical Specifications

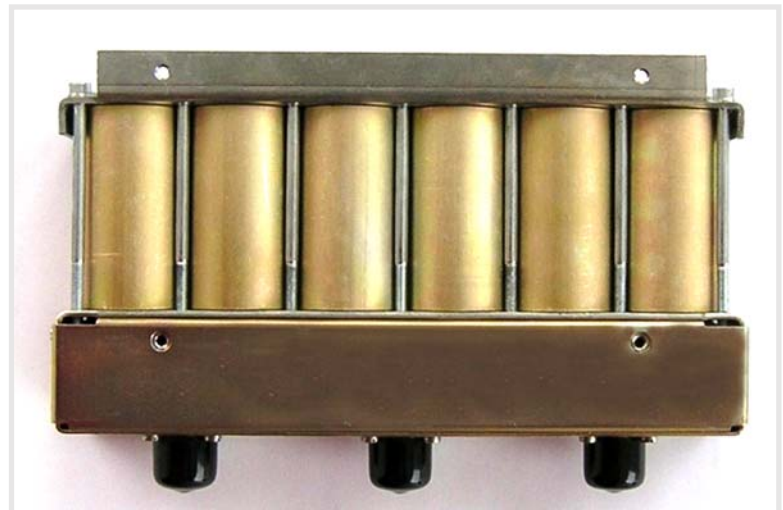
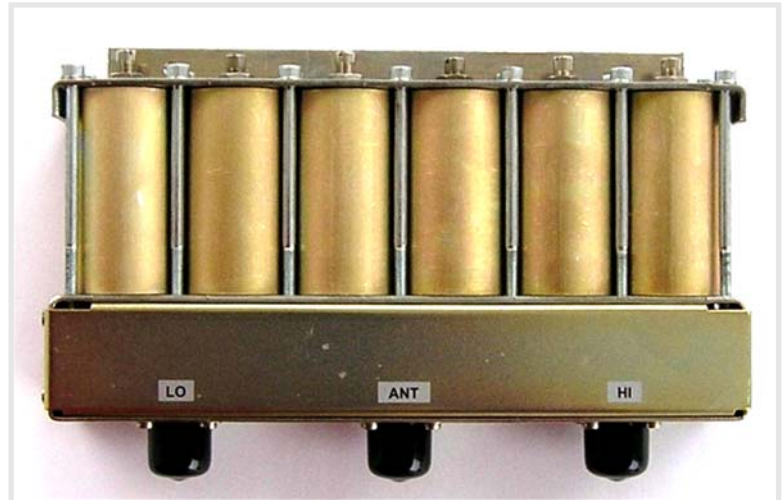
Type	DH 300 / 6R			
Frequency range	MHz	300 ÷ 360		
Duplex spacing	MHz	36		
Bandwidth	MHz	1	2	5
Insertion loss max.	dB	0.8		0.9
Isolation min.	dB	90		75
Maximum input power	W	25 (50)		
Impedance	Ω	50		
VSWR		< 1.5		
Weight	kg	1.1 ÷ 1.2		
Dimensions w × h × d	mm	210 × 130 × 38		
Connectors type		N, BNC, TNC – female *)		

*) According to customer's requirement.

Description

DH 450 / 6R duplexer is symmetric 6-cavity duplexer.

Heavy-duty mechanical construction allows use in both base radios and mobile radios.



Technical Specifications

Type	DH 450 / 6R				
Frequency range	MHz	400 ÷ 470			
Duplex spacing	MHz	6.5 ÷ 8.5	8.5 ÷ 15		
Bandwidth	MHz	0.5	0.5	1	2
Insertion loss max.	dB	1.9	1.3	1.5	1.9
Isolation min.	dB	65	70	65	60
Maximum input power	W	25 (50)			
Impedance	Ω	50			
VSWR		< 1.3			
Weight	kg	1.1 ÷ 1.2			
Dimensions w × h × d	mm	210 × 130 × 38			
Connectors type		N, BNC, TNC – female *)			

*) According to customer's requirement.



Description

DH 450 / 8R duplexer is symmetric 8-cavity duplexer. Heavy-duty mechanical construction allows use in both base radios and mobile radios.

Technical Specifications

Type	DH 450 / 8R				
Frequency range	MHz	400 ÷ 470			
Duplex spacing	MHz	6.5 ÷ 8.5	8.5 ÷ 15		
Bandwidth	MHz	1	2	3	4
Insertion loss max.	dB	1.9	1.3	1.5	1.9
Isolation min.	dB	75	75	65	60
Maximum input power	W	45 (-30 ÷ +50 °C), 30 (-30 ÷ +70 °C)			
Impedance	Ω	50			
VSWR		< 1.3			
Weight	kg	1.6 ÷ 1.7			
Dimensions w × h × d	mm	275 × 162 × 38			
Connectors type		N, BNC, TNC, (SMA) – female *)			

*) According to customer's requirement.



Description

XF 4045A duplexer is a 6-resonators duplexer designed primarily for UIC railway communication. The duplexer is temperature compensated and operates at broad temperature range.

Technical Specifications

Type	XF 4045A	
Frequency range (LOW)	MHz	456.8 ÷ 458.8
Frequency range (HIGH)	MHz	466.8 ÷ 468.8
Insertion loss	dB	1.5
Stopband attenuation	dB	70
VSWR		< 1.35
Maximum input power	W	22
Impedance	Ω	50
Operating temperature	$^{\circ}\text{C}$	-25 ÷ +75
Storage temperature	$^{\circ}\text{C}$	-40 ÷ +75
Dimensions w × h × d	mm	154 × 68 × 27
Weight	kg	0.4
Connectors type		SMA female

Test Specifications

Produced according the Standard	EN 50 155
Shock and vibration tests according the Standard	EN 61 373



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