

ANTENNAS, POWER DIVIDERS & SYSTEMS



be innovative

be reliable

be partner

VHF B II FM
VHF B III DAB
UHF B IV-V
POWER DIVIDERS

BELCO FOCUSES ON MAINTAINING A RESPONSIVE, FLEXIBLE AND QUALITY-ORIENTED COMPANY. THIS IS ALSO EVIDENCED BY MAINTAINING UNI EN ISO 9001:2015 CERTIFICATION SINCE 2002.



MANAGEMENT SYSTEM CERTIFICATE

Certificate no.:
CERT-10938-2002-AQ-MIL-SINCERT

Initial certification date:
06 August 2002

Valid:
17 July 2023 – 16 July 2026

This is to certify that the management system of

BELCO S.r.l.

Via Lodi, 86 - 21042 Caronno Pertusella (VA) - Italy

has been found to conform to the Quality Management System standard:

ISO 9001:2015

This certificate is valid for the following scope:

Design and manufacture of coaxial passive components and equipment for telecommunications, broadcasting and low voltage distribution applications. Trade and after sales servicing of components and equipments for professional electronics (IAF 19, 29)

Place and date:
Vimercate (MB), 20 June 2023



SGQ N° 003 A EMAS N° 009 P
SGA N° 003 D PRD N° 003 B
SCE N° 007 M PRS N° 094 C
SCR N° 004 F SSI N° 002 G

Membro di MLA EA per gli schemi di accreditamento
SGQ, SGA, PRD, PRS, ISR, GIG, LAB e LAT, di MLA IAF
per gli schemi di accreditamento SGQ, SGA, SSI, FSM
e PRD e di MRA ILAC per gli schemi di accreditamento
LAB, MED, LAT e ISP

For the issuing office:
DNV - Business Assurance
Via Energy Park, 14, - 20871 Vimercate (MB) - Italy



Claudia Baroncini
Management Representative

Lack of fulfilment of conditions as set out in the Certification Agreement may render this Certificate invalid.

ACCREDITED UNIT: DNV Business Assurance Italy S.r.l., Via Energy Park, 14 - 20871 Vimercate (MB) - Italy - TEL: +39 68 99 905. www.dnv.it

OUR MISSION

BELCO IS COMMITTED TO BE RECOGNIZED BY CLIENTS AS PREFERRED PARTNER EXCELLING IN THE QUALITY OF PRODUCTS ,SERVICES AND COMPETITIVENESS.

WE ARE A COMPANY OF PEOPLE DEDICATED TO INNOVATION, RELIABILITY, EFFICIENCY AND SUSTAINABILITY.



Belco S.r.l. has specialized in the production and sale of passive electronic components throughout Italy since 1981. Originally, the company operated as a broker and sales agent, dealing mainly with military products. Before long, our activities expanded to other products and fields of application.

In fact, after a few years it became clear that the company's mission was shifting to the innovative and growing fields of Telecommunications and Broadcasting.

1993 was the decisive year that marked our entry into these interesting markets, where we have been growing steadily ever since, allowing us, in 1996, to launch our in-house designed and manufactured products for both Italy and abroad.

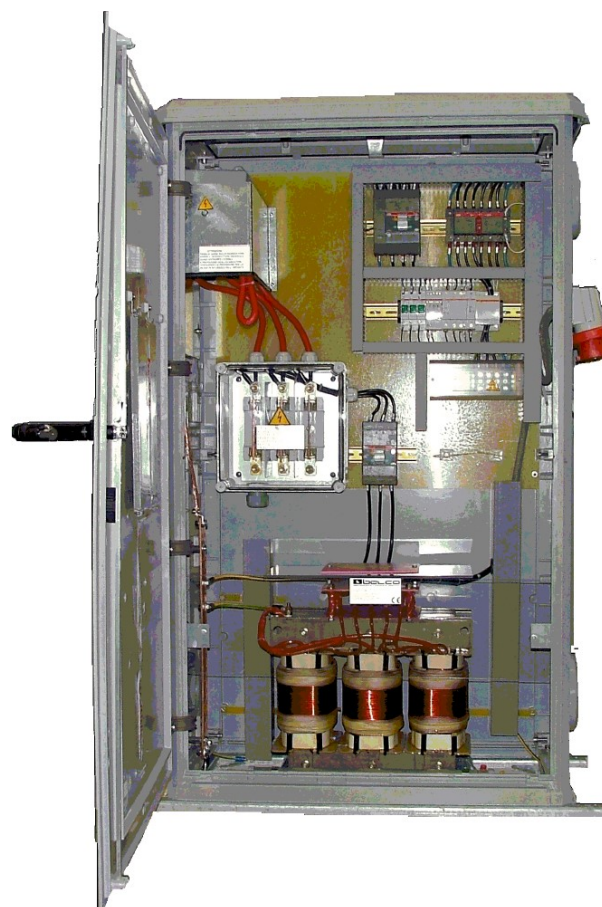
In 2006 it was decided to complete and enrich the Broadcasting offer with the acquisition of the Broadcasting Division of Telesystem srl, a historical company in the antenna sector.



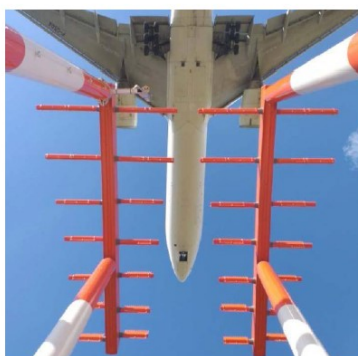


In addition to acting as a distributor for various manufacturers and their products, we have successfully implemented our "Belco" brand of components and equipment over 30 years:

- RF Coaxial connectors and adapters
- RF connection systems
- Low voltage switchboards for power distribution and transmitter/RBS protection
- Transmission antennas and power dividers



Belco specializes in design, engineering and production of custom products based on new requests or existing specifications.



Radio & TV Transmitting System



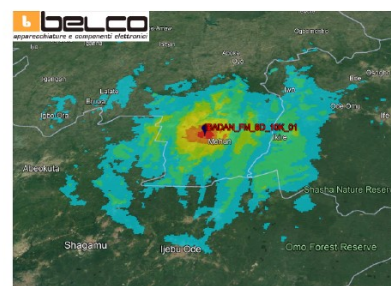
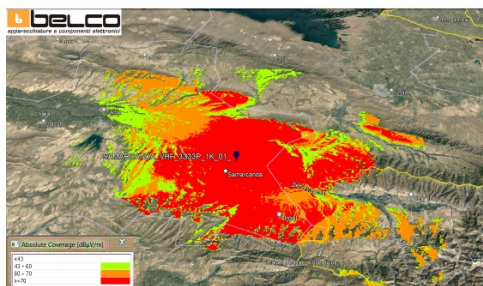
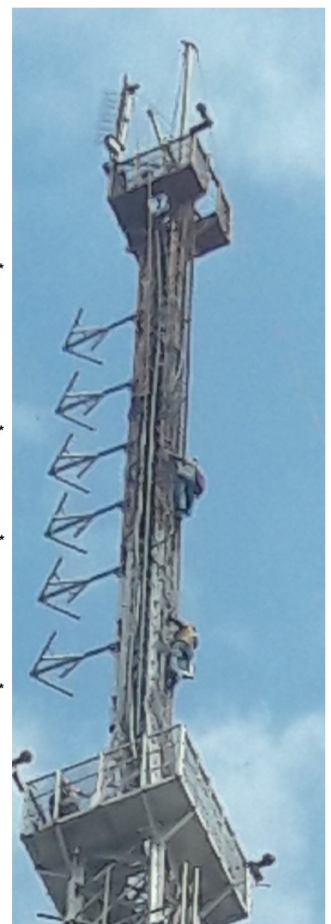
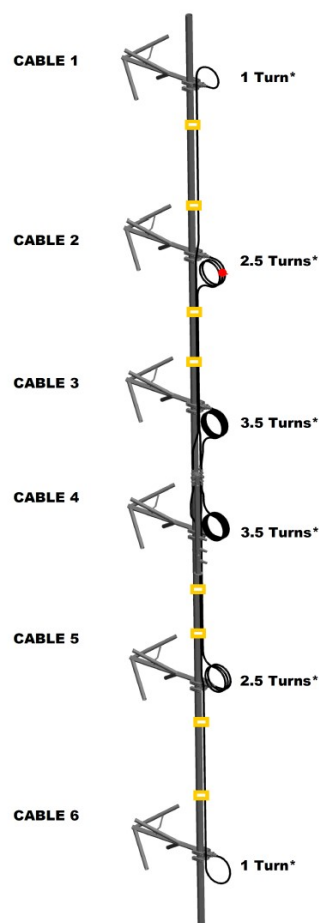
With a wide range of products specifically for Radio and TV Broadcasting applications, Belco can provide a complete antenna system as well as single components:

- Antennas
- Power Dividers
- Branching cables
- Antenna cables
- Feeding cables
- Accessories (Grounding kit, hoisting grip ...)

To assist customer in all typical steps involved in the radio television antenna system realisation, Belco is able to offer, on request, a complete antenna system development service which includes:

- On site survey
- Antenna system analysis
- Antenna lay-out design
- Feeding network design (including beam tilt, vertical null fill and VSWR optimisation)
- Coverage forecast including territory effects and interference analysis
- Commissioning and supervision.

To optimise customer's purchase planning we are able to deliver all antenna system components as well as the related materials (combiners, patch panels, dehydrators etc...) in a unique complete package solution.



87.5 ÷ 108 MHz

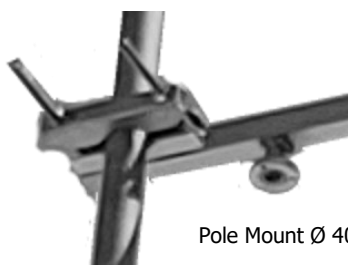
TYPE	DESCRIPTION
BAN2000.02	FM light weight Dipole
BAN2000.03	FM Dipole
BAN2000.04	FM Dipole
BAN2000.00	FM Galvanised Heavy Duty Dipole
BAN2000.01	FM Heavy Duty Dipole
BAN0241A	FM Circular Polarization Dipole
BAN0241AH1	FM Circular Polarization High Power Dipole
BAN0170A	FM Two Element Yagi
BAN0235AH1	FM Two Element High Power Yagi
BAN093A	FM Three Element Yagi
BAN092E	FM Light Weight Three Element Yagi
BAN0209B	FM Four Element Yagi
BAN2015	FM Five Elements Log Periodic
BAN020C	FM Two Dipoles Panel
BAN2100	FM Circular Polarized Panel

BAN2000.02

FM light weight Dipole

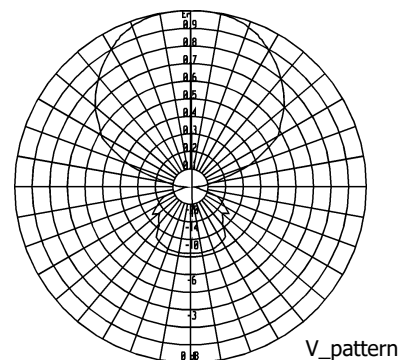
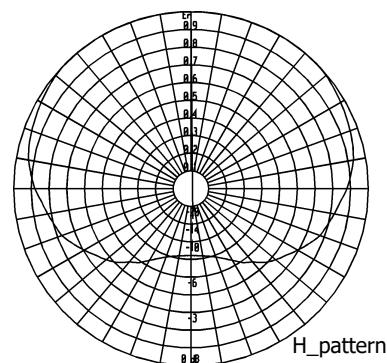
87.5÷108 MHz

Type	BAN2000.02
ELECTRICAL	
Frequency	87.5÷108 MHz
Impedance	50 Ω unbalanced
V.S.W.R. (R.L)	< 1.35 (-16.5 dB)
Gain	2.0 dBd
HPBW H-pattern	± 105°
HPBW V-pattern	± 36°
Polarization	Vertical
Max power	See Below Table
Input connector	n(f) , 7/16 (f) din , 7/8" EIA
Lightning Protection	DC grounded
MECHANICAL	
Connector material	Nickel plated Brass
External parts material	Passivated Aluminum
Internal lines material	Passivated Aluminum
Insulators material	Virgin PTFE
Brackets and Hardware material	Stainless Steel
Pressurization	yes
Survival wind velocity	240 km/h
Wind load at 160 km/h Frontal	95 N
Wind load at 160 km/h Lateral	150 N
Dimensions	140 x 90 x 5 cm
Weight (incl. Brackets)	4.0 kg
Mounting System	See Below



Pole Mount Ø 40÷114 mm

RADIATION PATTERN



Ordering Information

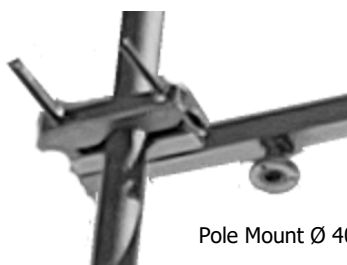
p/n	Input Connector	Max Power
BAN2000.02.00	n(f)	0.8 kW
BAN2000.02.01	7/16 (f) din	2.0 kW
BAN2000.02.02	7/8" EIA	3.0 kW

BAN2000.03

FM Dipole

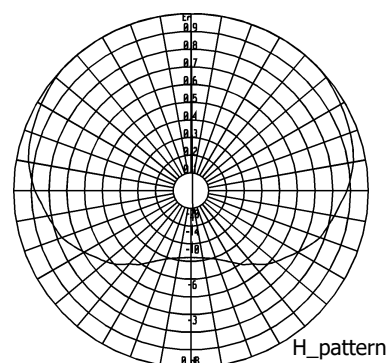
87.5÷108 MHz

Type	BAN2000.03
ELECTRICAL	
Frequency	87.5÷108 MHz
Impedance	50 Ω unbalanced
V.S.W.R. (R.L)	< 1.35 (-16.5 dB)
Gain	2.0 dBd
HPBW H-pattern	± 105°
HPBW V-pattern	± 36°
Polarization	Vertical
Max power	See Below Table
Input connector	n(f) , 7/16 (f) din , 7/8" EIA
Lightning Protection	DC grounded
MECHANICAL	
Connector material	Nickel plated Brass
External parts material	Passivated Stainless Steel
Internal lines material	Passivated Aluminum
Insulators material	Virgin PTFE
Brackets and Hardware material	Stainless Steel
Pressurization	yes
Survival wind velocity	240 km/h
Wind load at 160 km/h Frontal	95 N
Wind load at 160 km/h Lateral	150 N
Dimensions	140 x 90 x 5 cm
Weight (incl. Brackets)	7.0 kg
Mounting System	See Below

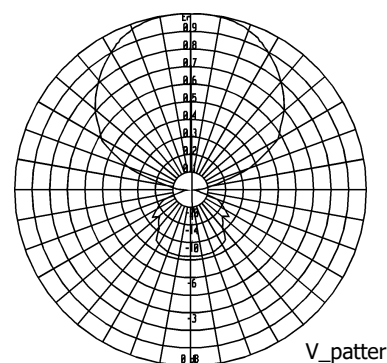


Pole Mount Ø 40÷114 mm

RADIATION PATTERN



H_pattern



V_pattern

Ordering Information

p/n	Input Connector	Max Power
BAN2000.03.00	n(f)	0.8 kW
BAN2000.03.01	7/16 (f) din	2.0 kW
BAN2000.03.02	7/8" EIA	3.0 kW

BAN2000.04

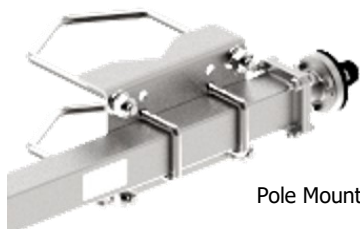
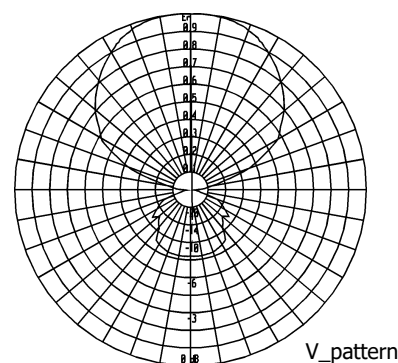
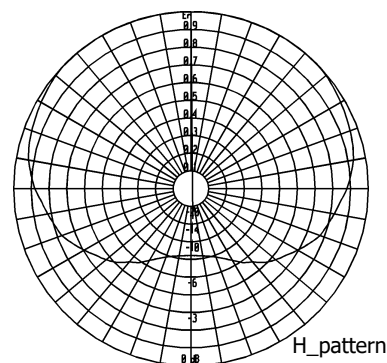
FM Dipole

87.5÷108 MHz

Type	BAN2000.04
ELECTRICAL	
Frequency	87.5÷108 MHz
Impedance	50 Ω unbalanced
V.S.W.R. (R.L)	< 1.25 (-19.0 dB)
Gain	2.0 dBd
HPBW H-pattern	± 105°
HPBW V-pattern	± 36°
Polarization	Vertical
Max power	See Below Table
Input connector	n(f) , 7/16 (f) din , 7/8" EIA
Lightning Protection	DC grounded
MECHANICAL	
Connector material	Nickel plated Brass
External parts material	Passivated Stainless Steel
Internal lines material	Silver plated Aluminum
Insulators material	Virgin PTFE
Brackets and Hardware material	Stainless Steel
Pressurization	yes
Environment Protection	U.V. resistant Fiberglass Radome
Survival wind velocity	240 km/h
Wind load at 160 km/h Frontal	105 N
Wind load at 160 km/h Lateral	180 N
Dimensions	147 x 115 x 15 cm
Weight (incl. Brackets)	9.0 kg
Mounting System	See Below



RADIATION PATTERN



Pole Mount Ø 40÷114 mm

Ordering Information

p/n	Input Connector	Max Power
BAN2000.04.00	n(f)	0.8 kW
BAN2000.04.01	7/16 (f) din	3.5 kW
BAN2000.04.02	7/8" EIA	5.0 kW

BAN2000.00

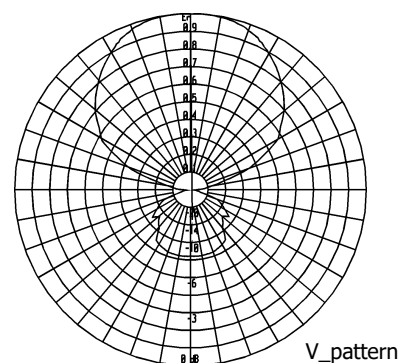
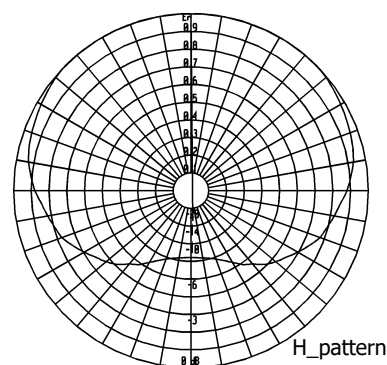
FM Galvanised Heavy Duty Dipole

87.5÷108 MHz



Type	BAN2000.04
ELECTRICAL	
Frequency	87.5÷108 MHz
Impedance	50 Ω unbalanced
V.S.W.R. (R.L)	< 1.25 (-19.0 dB)
Gain	2.0 dBd
HPBW H-pattern	± 105°
HPBW V-pattern	± 36°
Polarization	Vertical
Max power	See Below Table
Input connector	7/16 (f) din , 7/8" EIA
Lightning Protection	DC grounded
MECHANICAL	
Connector material	Nickel plated Brass
External parts material	Galvanised Steel
Internal lines material	Silver plated Aluminum
Insulators material	Virgin PTFE
Brackets and Hardware material	Stainless Steel
Pressurization	Up to the input Connector
Environment Protection	U.V. resistant Fiberglass Radome
Survival wind velocity	240 km/h
Wind load at 160 km/h Frontal	115 N
Wind load at 160 km/h Lateral	220 N
Dimensions	138 x 90 x 12 cm
Weight (incl. Brackets)	12.0 kg
Mounting System	See Below

RADIATION PATTERN



Pole Mount Ø 40÷114 mm

Ordering Information

p/n	Input Connector	Max Power
BAN2000.00.01	7/16 (f) din	3.5 kW
BAN2000.00.02	7/8" EIA	5.0 kW

BAN2000.01

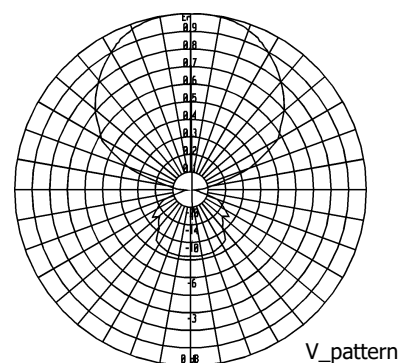
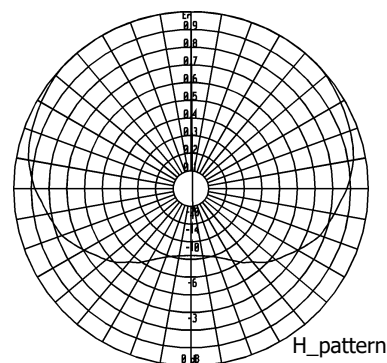
FM Heavy Duty Dipole

87.5÷108 MHz



Type	BAN2000.01
ELECTRICAL	
Frequency	87.5÷108 MHz
Impedance	50 Ω unbalanced
V.S.W.R. (R.L)	< 1.25 (-19.0 dB)
Gain	2.0 dBd
HPBW H-pattern	± 105°
HPBW V-pattern	± 36°
Polarization	Vertical
Max power	See Below Table
Input connector	7/16 (f) din , 7/8" EIA
Lightning Protection	DC grounded
MECHANICAL	
Connector material	Nickel plated Brass
External parts material	Passivated Stainless Steel
Internal lines material	Silver plated Aluminum
Insulators material	Virgin PTFE
Brackets and Hardware material	Stainless Steel
Pressurization	Up to the input Connector
Environment Protection	U.V. resistant ABS Radome
Survival wind velocity	240 km/h
Wind load at 160 km/h Frontal	110 N
Wind load at 160 km/h Lateral	225 N
Dimensions	138 x 90 x 12 cm
Weight (incl. Brackets)	12.0 kg
Mounting System	See Below

RADIATION PATTERN



Pole Mount Ø 40÷114 mm

Ordering Information

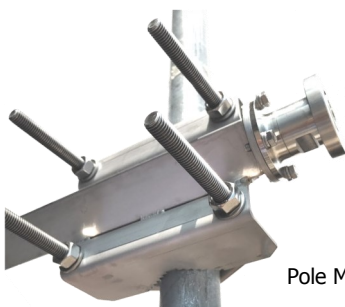
p/n	Input Connector	Max Power
BAN2000.01.01	7/16 (f) din	3.5 kW
BAN2000.01.02	7/8" EIA	5.0 kW

BAN0241A

FM Circular Polarization Dipole

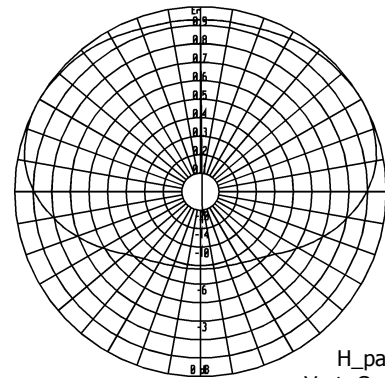
87.5÷108 MHz

Type	BAN0241ASX	BAN0241AFX
ELECTRICAL		
Frequency	87.5÷108 MHz	
Impedance	50 Ω unbalanced	
V.S.W.R. (R.L)	< 1.40 (-15.0 dB)	
Gain	-1.5 dBd	
Radiation Pattern	See Below	
Polarization	Circular	
Max power	See Below Table	
Input connector	7/16 (f) din , 7/8" EIA	
Lightning Protection	DC grounded	
MECHANICAL		
Connector material	Nickel plated Brass	
External parts material	Passivated Stainless Steel	
Internal lines material	Silver plated Aluminum	
Insulators material	Virgin PTFE	
Brackets and Hardware material	Stainless Steel	
Pressurization	Yes	
Survival wind velocity	240 km/h	
Wind load at 160 km/h Frontal	80 N	
Wind load at 160 km/h Lateral	305 N	
Dimensions	156 x 115 x 115 cm	
Weight (incl. Brackets)	13.0 kg	
Mounting System	See Below	

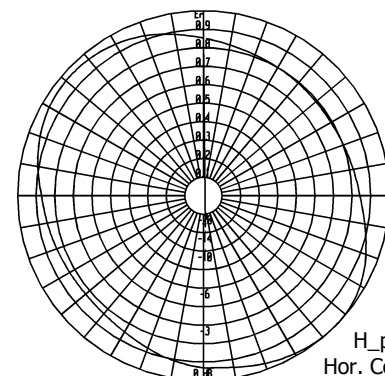


Pole Mount Ø 40÷114 mm

RADIATION PATTERN



H_pattern
Vert. Component



H_pattern
Hor. Component

Ordering Information

p/n	Input Connector	Max Power	Lay Out
BAN0241ASX.01	7/16 (f)	3.0 kW	dismountable
BAN0241ASX.02	7/8" EIA	5.0 kW	dismountable
BAN0241AFX.01	7/16 (f)	3.0 kW	fully welded
BAN0241AFX.02	7/8" EIA	5.0 kW	fully welded

BAN0241AH1

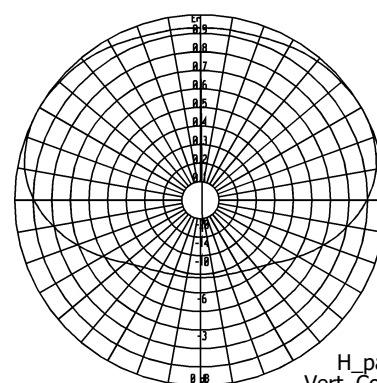
FM Circular Polarization High Power Dipole

87.5÷108 MHz

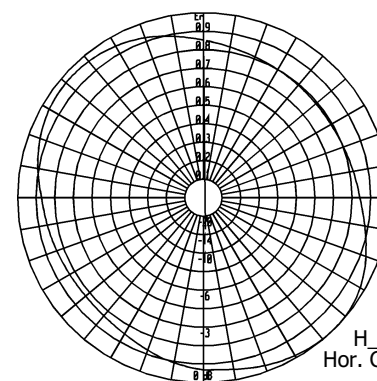
Type	BAN0241AH1
ELECTRICAL	
Frequency	87.5÷108 MHz
Impedance	50 Ω unbalanced
V.S.W.R. (R.L)	< 1.40 (-15.0 dB)
Gain	-1.5 dBd
Radiation Pattern	See Below
Polarization	Circular
Max power	See Below Table
Input connector	7/8" EIA , 1 5/8" eia
Lightning Protection	DC grounded
MECHANICAL	
Connector material	Nickel plated Brass
External parts material	Passivated Stainless Steel
Internal lines material	Silver plated Aluminum
Insulators material	Virgin PTFE
Brackets and Hardware material	Stainless Steel
Pressurization	Yes
Survival wind velocity	240 km/h
Wind load at 160 km/h Frontal	102 N
Wind load at 160 km/h Lateral	410 N
Dimensions	156 x 115 x 115 cm
Weight (incl. Brackets)	23.0 kg
Mounting System	See Below



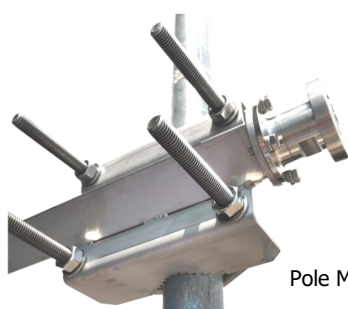
RADIATION PATTERN



H_pattern
Vert. Component



H_pattern
Hor. Component



Pole Mount Ø 40÷114 mm

Ordering Information

p/n	Input Connector	Max Power	Lay Out
BAN0241AH1.02	7/8" EIA	7.0 Kw	fully welded
BAN0241AH1.03	1 5/8" EIA	13.0 kW	fully welded

BAN0170A

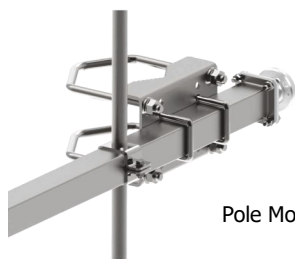
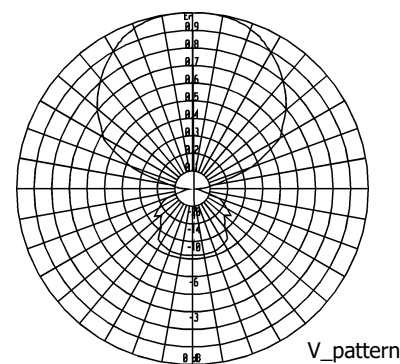
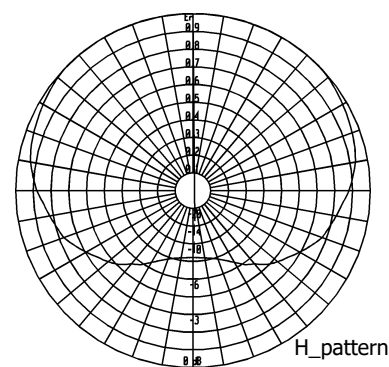
FM Two Element Yagi

87.5÷108 MHz

Type	BAN0170A
ELECTRICAL	
Frequency	87.5÷108 MHz
Impedance	50 Ω unbalanced
V.S.W.R. (R.L)	< 1.30 (-17.7 dB)
Gain	3.7 dBd
HPBW H-pattern	± 81°
HPBW V-pattern	± 35°
Polarization	Vertical
Max power	See Below Table
Input connector	n(f) , 7/16 (f) din , 7/8" EIA
Lightning Protection	DC grounded
MECHANICAL	
Connector material	Nickel plated Brass
External parts material	Passivated Stainless Steel
Internal lines material	Silver plated Aluminum
Insulators material	Virgin PTFE
Brackets and Hardware material	Stainless Steel
Pressurization	yes
Environment Protection	U.V. resistant Fiberglass Radome
Survival wind velocity	240 km/h
Wind load at 160 km/h Frontal	115 N
Wind load at 160 km/h Lateral	230 N
Dimensions	160 x 115 x 15 cm
Weight (incl. Brackets)	10.5 kg
Mounting System	See Below



RADIATION PATTERN



Pole Mount Ø 40÷114 mm

Ordering Information

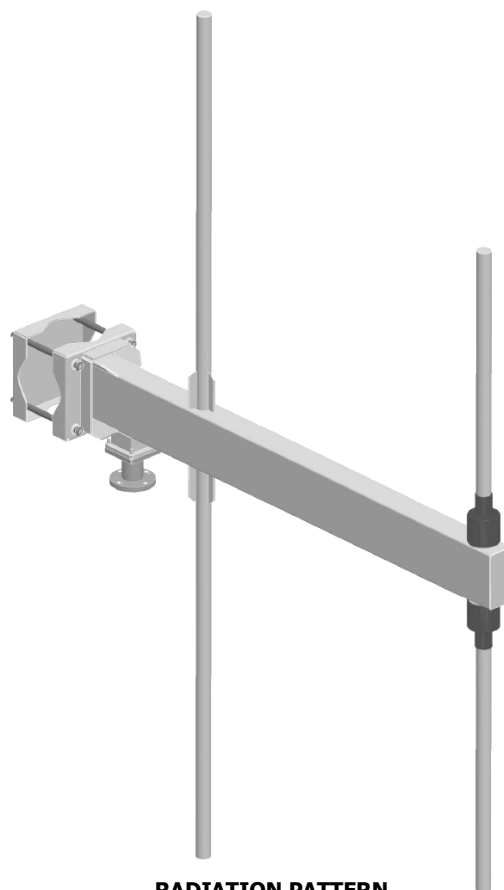
p/n	Input Connector	Max Power
BAN0170A.00	n(f)	0.8 kW
BAN0170A.01	7/16 (f) din	3.5 kW
BAN0170A.02	7/8" EIA	5.0 kW

BAN0235AH1

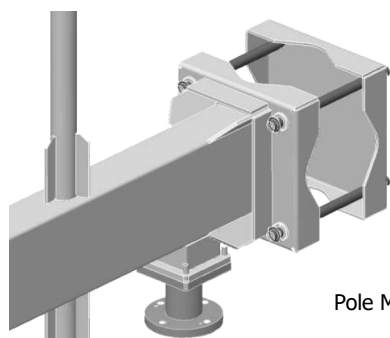
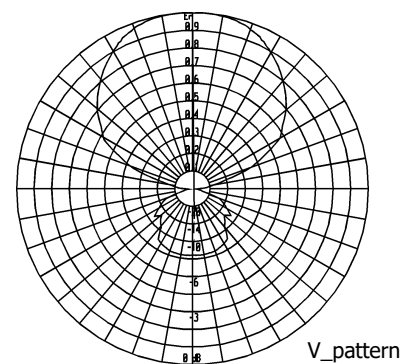
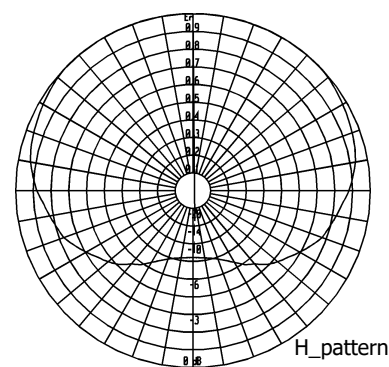
FM Two Element High Power Yagi

87.5÷108 MHz

Type	BAN0235AH1
ELECTRICAL	
Frequency	87.5÷108 MHz
Impedance	50 Ω unbalanced
V.S.W.R. (R.L)	< 1.35 (-17.7 dB)
Gain	3.7 dBd
HPBW H-pattern	± 81°
HPBW V-pattern	± 35°
Polarization	Vertical
Max power	See Below Table
Input connector (Elbow)	7/8" EIA , 1 5/8" EIA
Lightning Protection	DC grounded
MECHANICAL	
Connector material	Nickel plated Brass
External parts material	Passivated Stainless Steel
Internal lines material	Silver plated Aluminum
Insulators material	Virgin PTFE
Brackets and Hardware material	Stainless Steel
Pressurization	yes
Survival wind velocity	240 km/h
Wind load at 160 km/h Frontal	135 N
Wind load at 160 km/h Lateral	290 N
Dimensions	187 x 124 x 20 cm
Weight (incl. Brackets)	25.0 kg
Mounting System	See Below



RADIATION PATTERN



Pole Mount Ø 40÷114 mm

Ordering Information

p/n	Input Connector	Max Power
BAN0235AH1.02	7/8" EIA	5.0 kW
BAN0235AH1.03	1 5/8"	13.0 kW

BAN093A

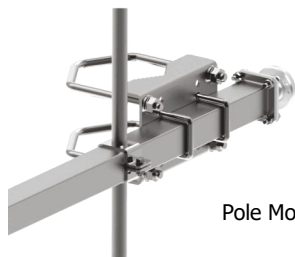
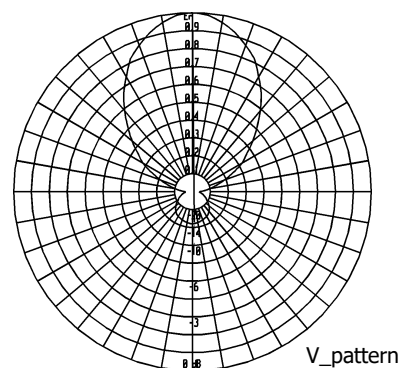
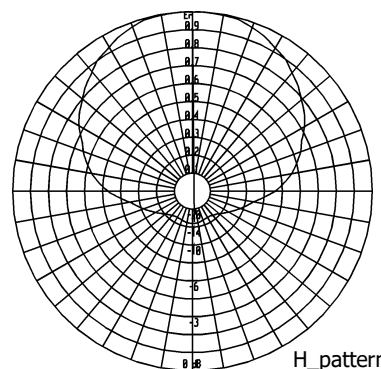
FM Three Element Yagi

87.5÷108 MHz

Type	BAN093A
ELECTRICAL	
Frequency	87.5÷108 MHz
Impedance	50 Ω unbalanced
V.S.W.R. (R.L)	< 1.30 (-17.7 dB)
Gain	4.5 dBd
HPBW H-pattern	± 66°
HPBW V-pattern	± 31°
Polarization	Vertical
Max power	See Below Table
Input connector	n(f) , 7/16 (f) din , 7/8" EIA
Lightning Protection	DC grounded
MECHANICAL	
Connector material	Nickel plated Brass
External parts material	Passivated Stainless Steel
Internal lines material	Silver plated Aluminum
Insulators material	Virgin PTFE
Brackets and Hardware material	Stainless Steel
Pressurization	yes
Environment Protection	U.V. resistant Fiberglass Radome
Survival wind velocity	240 km/h
Wind load at 160 km/h Frontal	150 N
Wind load at 160 km/h Lateral	300 N
Dimensions	160 x 170 x 15 cm
Weight (incl. Brackets)	14.0 kg
Mounting System	See Below



RADIATION PATTERN



Pole Mount Ø 40÷114 mm

Ordering Information

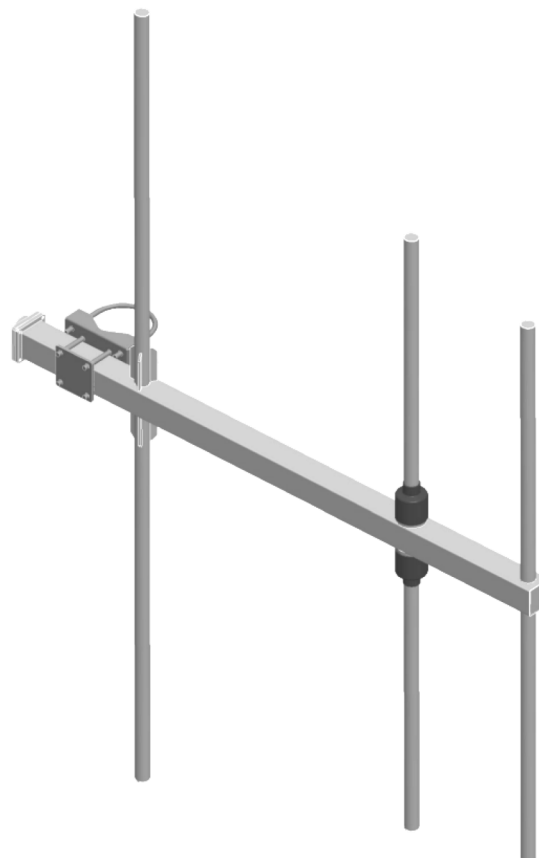
p/n	Input Connector	Max Power
BAN093A.00	n(f)	0.8 kW
BAN093A.01	7/16 (f) din	3.5 kW
BAN093A.02	7/8" EIA	5.0 kW

BAN092E

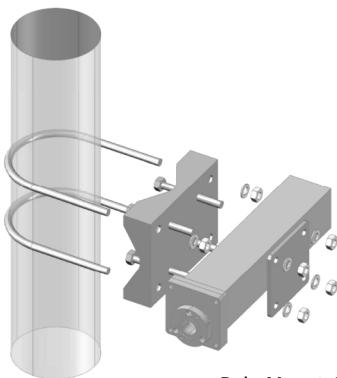
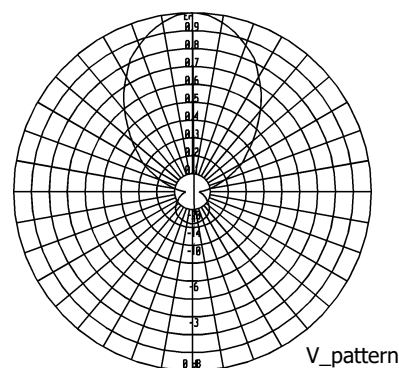
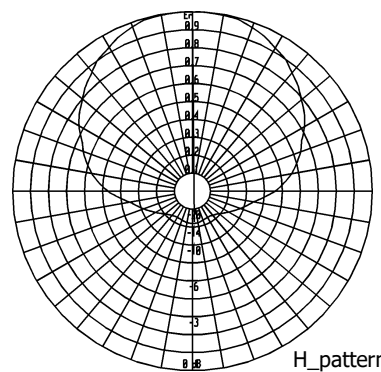
FM Light Weight Three Element Yagi

87.5÷108 MHz

Type	BAN092E-AL
ELECTRICAL	
Frequency	87.5÷108 MHz
Impedance	50 Ω unbalanced
V.S.W.R. (R.L)	< 1.30 (-17.7 dB)
Gain	4.5 dBd
HPBW H-pattern	± 63°
HPBW V-pattern	± 32°
Polarization	Vertical / Horizontal
Max power	See Below Table
Input connector	7/16 (f) din , 7/8" EIA
Lightning Protection	DC grounded
MECHANICAL	
Connector material	Nickel plated Brass
External parts material	Stainless Steel
Internal lines material	Silver plated Aluminum
Insulators material	Virgin PTFE
Brackets and Hardware material	Stainless Steel
Pressurization	yes
Survival wind velocity	240 km/h
Wind load at 160 km/h Frontal	150 N
Wind load at 160 km/h Lateral	300 N
Dimensions	173 x 133 x 8 cm
Weight (incl. Brackets)	12.0 kg
Mounting System	See Below



RADIATION PATTERN



Pole Mount Ø 60÷114 mm

Ordering Information

p/n	Input Connector	Max Power
BAN092E.01	7/16 (f) din	3.5 kW
BAN092E.02	7/8" EIA	5.0 kW

BAN0209B

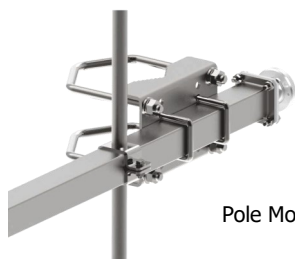
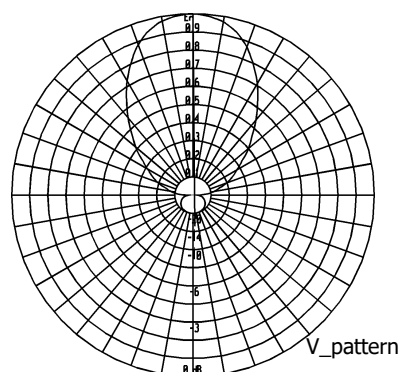
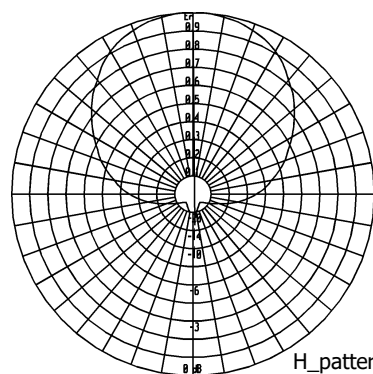
FM Four Element Yagi

87.5÷108 MHz

Type	BAN0209B
ELECTRICAL	
Frequency	87.5÷108 MHz
Impedance	50 Ω unbalanced
V.S.W.R. (R.L)	< 1.30 (-17.7 dB)
Gain	5.4 dBd
HPBW H-pattern	± 56°
HPBW V-pattern	± 31°
Polarization	Vertical
Max power	See Below Table
Input connector	n(f) , 7/16 (f) din , 7/8" EIA
Lightning Protection	DC grounded
MECHANICAL	
Connector material	Nickel plated Brass
External parts material	Passivated Stainless Steel
Internal lines material	Silver plated Aluminum
Insulators material	Virgin PTFE
Brackets and Hardware material	Stainless Steel
Pressurization	yes
Environment Protection	U.V. resistant Fiberglass Radome
Survival wind velocity	240 km/h
Wind load at 160 km/h Frontal	165 N
Wind load at 160 km/h Lateral	330 N
Dimensions	160 x 170 x 15 cm
Weight (incl. Brackets)	15.0 kg
Mounting System	See Below



RADIATION PATTERN



Pole Mount Ø 40÷114 mm

Ordering Information

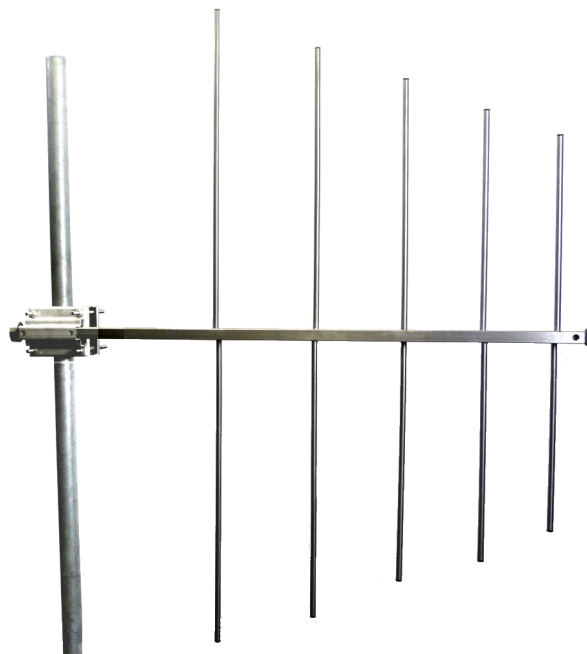
p/n	Input Connector	Max Power
BAN0209B.00	n(f)	0.8 kW
BAN0209B.01	7/16 (f) din	3.5 kW
BAN0209B.02	7/8" EIA	5.0 kW

BAN2015

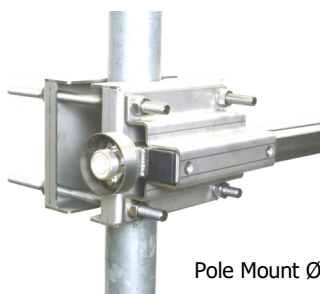
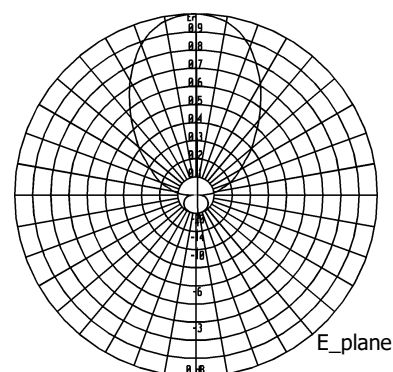
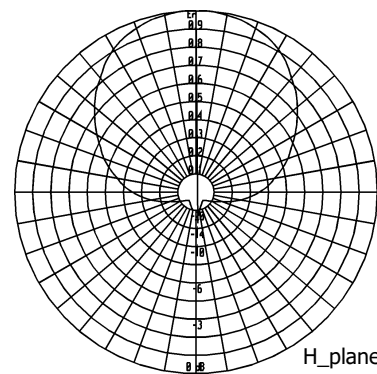
FM Five Elements Log Periodic

87.5÷108 MHz

Type	BAN2015
ELECTRICAL	
Frequency	87.5÷108 MHz
Impedance	50 Ω unbalanced
V.S.W.R. (R.L)	< 1.25 (-19.0 dB)
Gain	6.2 dBd
HPBW H-plane	± 50°
HPBW E-plane	± 38°
Polarization	Vertical / Horizontal
Max power	See Below Table
Input connector	n(f) , 7/16 (f) din , 7/8" EIA
Lightning Protection	DC grounded
MECHANICAL	
Connector material	Nickel plated Brass
External parts material	Passivated Stainless Steel
Internal lines material	Silver plated Aluminum
Insulators material	Virgin PTFE
Brackets and Hardware material	Stainless Steel
Pressurization	yes
Environment Protection	U.V. resistant Fiberglass Radome
Survival wind velocity	180 km/h
Wind load at 160 km/h Frontal	115 N
Wind load at 160 km/h Lateral	315 N
Dimensions	155 x 170 x 8 cm
Weight (incl. Brackets)	10.5 kg
Mounting System	See Below



RADIATION PATTERN



Pole Mount Ø 40÷114 mm

Ordering Information

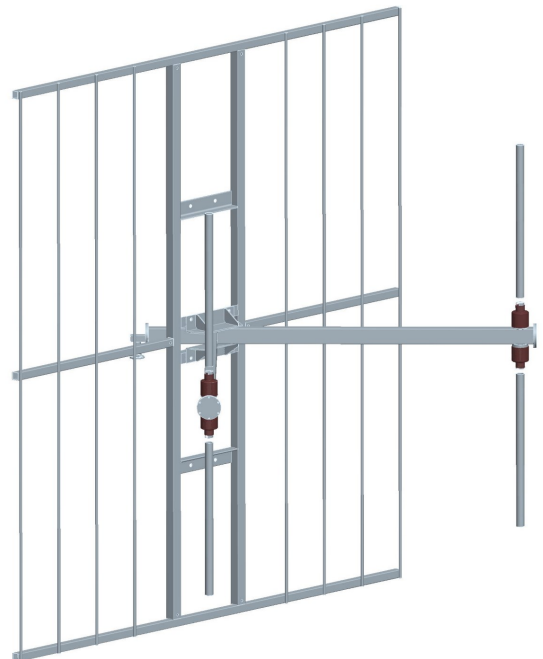
p/n	Input Connector	Max Power
BAN2015.00	n(f)	0.8 kW
BAN2015.01	7/16 (f) din	2.0 kW
BAN2015.02	7/8" EIA	3.5 kW

BAN020C

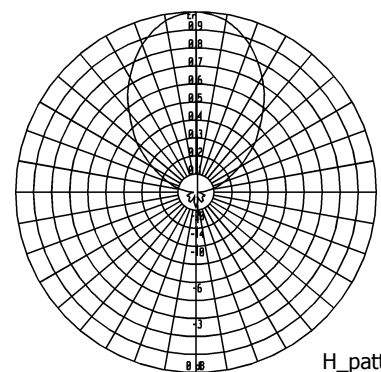
FM Two Dipoles Panel

87.5÷108 MHz

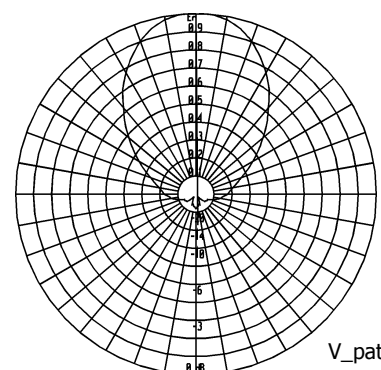
Type	BAN020C
ELECTRICAL	
Frequency	87.5÷108 MHz
Impedance	50 Ω unbalanced
V.S.W.R. (R.L)	< 1.15 (-23.1 dB)
Gain	7.0 dBd
HPBW H-pattern	± 31°
HPBW V-pattern	± 36°
Polarization	Vertical
Max power	See Below Table
Input connector	7/16 (f) din , 7/8" EIA
Lightning Protection	DC grounded
MECHANICAL	
Connector material	Nickel plated Brass
External parts material (Screen)	Hot Dip galvanized Steel
External parts material (Dipoles)	Passivated Stainless Steel
Internal lines material	Silver plated Aluminum
Insulators material	Virgin PTFE
Mounting Hardware material	Stainless Steel
Pressurization	yes
Environment Protection	U.V. resistant Fiberglass Radome*
Survival wind velocity	240 km/h
Wind load at 160 km/h Frontal	1600 N
Wind load at 160 km/h Lateral	980 N
Dimensions	200 x 220 x 100 cm
Weight	51.0 kg
Mounting System	See Below



RADIATION PATTERN

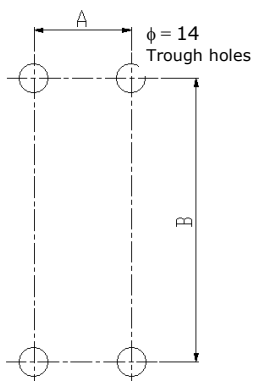


H_pattern



V_pattern

* Order separately



MOUNTING SYSTEM

On frame according to the mounting lay-out beside, where:

- A = 130 mm
- B = 1000 mm
- C = 14 mm

Pole mount available on request.

Ordering Information

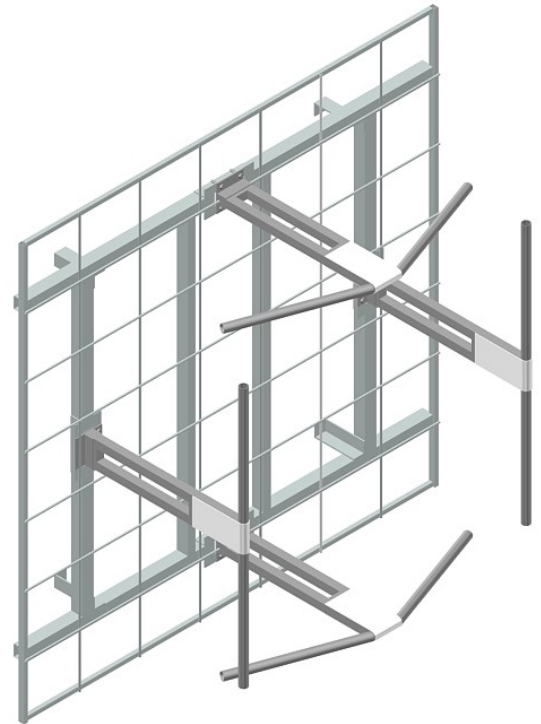
p/n	Input Connector	Max Power
BAN020C.01	7/16 (f)	3.5 kW
BAN020C.02	7/8" EIA	5.0 kW

BAN2100

FM Circular Polarized Panel

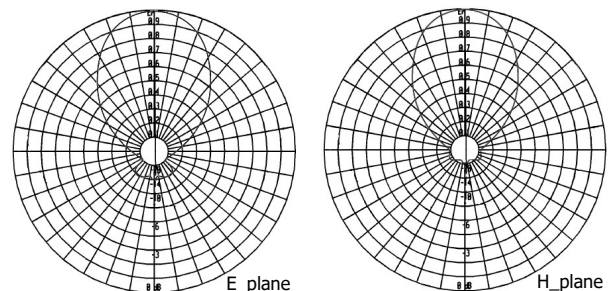
87.5÷108 MHz

Type		BAN2100
ELECTRICAL		
Frequency	87.5÷108 MHz	
Impedance	50 Ω unbalanced	
V.S.W.R. (R.L)	< 1.1 (-26.5 dB) (circ. pol.)	
Gain Linear Pol. / Circular Pol.	7.5 dBd / 4.5 dBd	
HPBW Hor. Pol. E-plane / H-plane	± 66° / ±62	
HPBW Vert. Pol. E-plane / H-plane	± 64° / ±62	
Polarization	Linear / Circular / Elliptical	
Max power	See Below Table	
Input connector (x 4)	7/16 (f) din , 7/8" EIA	
Lightning Protection	DC grounded	
MECHANICAL		
Connector material	Nickel plated Brass	
External parts material (Screen)	Hot dip galvanised Steel	
External parts material (Dipoles)	Passivated Stainless Steel	
Internal lines material	Silver plated Aluminum	
Insulators material	Virgin PTFE	
Mounting Hardware material	Stainless Steel	
Pressurization	yes	
Environment Protection	U.V. resistant ABS Radome	
Survival wind velocity	240 km/h	
Wind load at 160 km/h Frontal	1600 N	
Wind load at 160 km/h Lateral	980 N	
Dimensions	220 x 220 x 100 cm	
Weight	98.0 kg	
Mounting System	See Below	

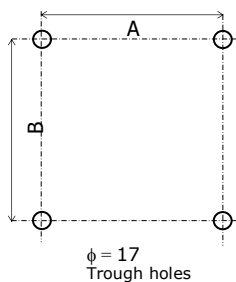
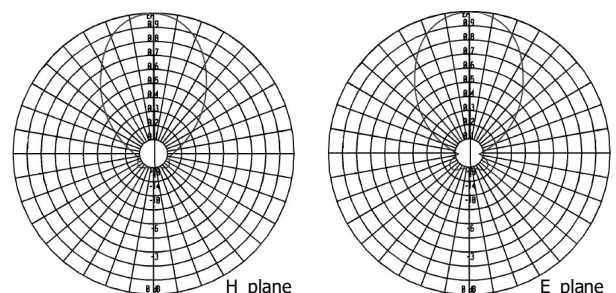


RADIATION PATTERN

Horizontal Polarization



Vertical Polarization



MOUNTING SYSTEM

On frame according to the mounting lay-out beside, where:
A = 1400 mm
B = 1400 mm

Pole mount available on request.

Ordering Information

p/n	Input Connector	Max Power
BAN2100.01	7/16 (f) din	3.5 kW (each connector)
BAN2100.02	7/8" EIA	5.0 kW (each connector)

174 ÷ 240 MHz

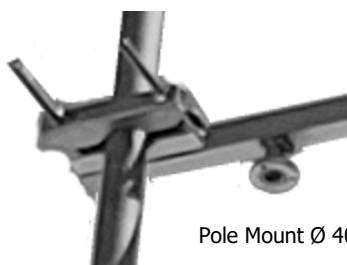
TYPE	DESCRIPTION
BAN3000.02	VHF+DAB Light weight Dipole
BAN3000.01	VHF+DAB Heavy Duty Dipole
BAN3200	VHF+DAB Two Stacked Dipole
BAN033FX WB	VHF+DAB Four Elements Yagi
BAN039FX WB	VHF+DAB Six Elements Yagi
BAN3400	VHF+DAB Eight Elements Log Periodic
BAN3500	VHF+DAB Two Dipoles Panel

BAN3000.02

VHF + DAB light weight Dipole

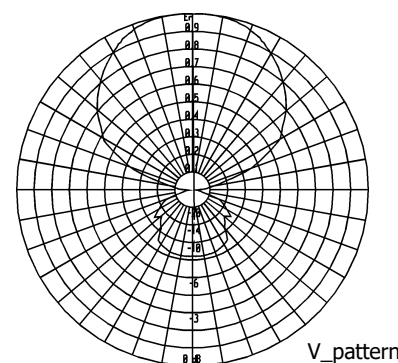
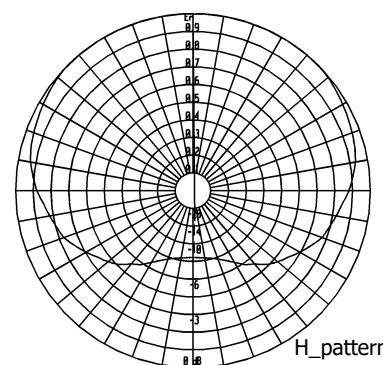
200 ÷ 240 MHz

Type	BAN3000.02
ELECTRICAL	
Frequency	200 ÷ 240 MHz
Impedance	50 Ω unbalanced
V.S.W.R. (R.L)	< 1.3 (-17.7 dB)
Gain	2.0 dBd
HPBW H-pattern	± 105°
HPBW V-pattern	± 36°
Polarization	Vertical
Max power	See Below Table
Input connector	n(f) , 7/16 (f) din
Lightning Protection	DC grounded
MECHANICAL	
Connector material	Nickel plated Brass
External parts material	Passivated Aluminum
Internal lines material	Passivated Aluminum
Insulators material	Virgin PTFE
Brackets and Hardware material	Stainless Steel
Pressurization	no
Survival wind velocity	200 km/h
Wind load at 160 km/h Frontal	50 N
Wind load at 160 km/h Lateral	85 N
Dimensions	67 x 67 x 5 cm
Weight (incl. Brackets)	3.0 kg
Mounting System	See Below



Pole Mount Ø 40÷114 mm

RADIATION PATTERN



Ordering Information

p/n	Input Connector	Max Power
BAN3000.02.00	n(f)	0.8 kW
BAN3000.02.01	7/16 (f) din	1.5 kW

BAN3000.01

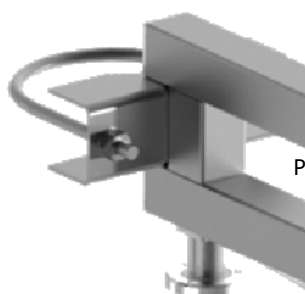
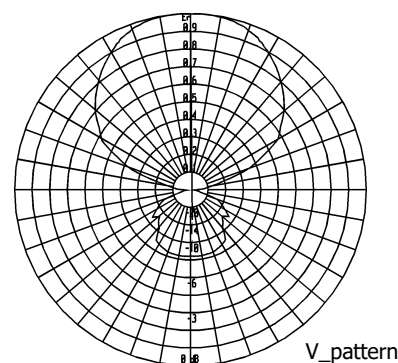
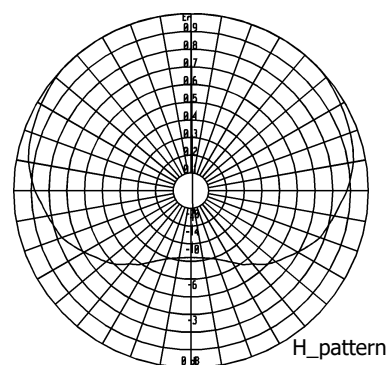
VHF + DAB Heavy Duty Dipole

174 ÷ 230 MHz

Type	BAN3000.01
ELECTRICAL	
Frequency	174 ÷ 230 MHz
Impedance	50 Ω unbalanced
V.S.W.R. (R.L)	< 1.2 (-20.6 dB)
Gain	2.0 dBd
HPBW H-pattern	± 105°
HPBW V-pattern	± 36°
Polarization	Vertical
Max power	See Below Table
Input connector	7/16 (f) din , 7/8"EIA
Lightning Protection	DC grounded
MECHANICAL	
Connector material	Nickel plated Brass
External parts material	Passivated Stainless Steel
Internal lines material	Passivated Aluminum
Insulators material	Virgin PTFE
Brackets and Hardware material	Stainless Steel
Pressurization	no
Environment Protection	U.V. resistant A.B.S. Radome
Survival wind velocity	240 km/h
Wind load at 160 km/h Frontal	75 N
Wind load at 160 km/h Lateral	115 N
Dimensions	89 x 78 x 6 cm
Weight (incl. Brackets)	7.0 kg
Mounting System	See Below



RADIATION PATTERN



Pole Mount Ø 60÷114 mm

Ordering Information

p/n	Input Connector	Max Power
BAN3000.01.01	7/16 (f) din	2.0 kW
BAN3000.01.02	7/8" EIA	3.5 kW

BAN3200

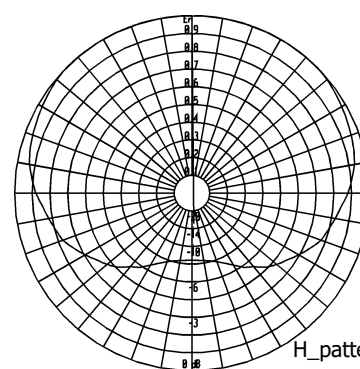
VHF + DAB Two Stacked Dipole

174÷230 MHz

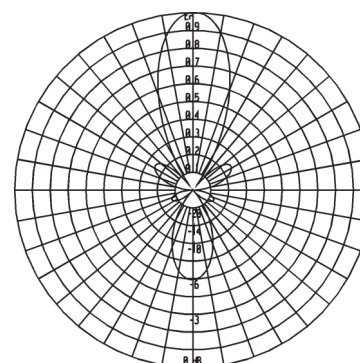
Type	BAN3200
ELECTRICAL	
Frequency	174 ÷ 230 MHz
Impedance	50 Ω unbalanced
V.S.W.R. (R.L)	< 1.25 (-19.1 dB)
Gain	5.5 dBd
HPBW H-pattern	± 105°
HPBW V-pattern	± 18°
Polarization	Vertical
Max power	See Below Table
Input connector	7/16 (f) din , 7/8"EIA
Lightning Protection	DC grounded
MECHANICAL	
Connector material	Nickel plated Brass
External parts material	Passivated Stainless Steel
Internal lines material	Passivated Aluminum
Insulators material	Virgin PTFE
Brackets and Hardware material	Stainless Steel
Pressurization	no
Environment Protection	U.V. resistant A.B.S. Radome
Survival wind velocity	240 km/h
Wind load at 160 km/h Frontal	190 N
Wind load at 160 km/h Lateral	410 N
Dimensions	230 x 50 x 27 cm
Weight (incl. Brackets)	18.0 kg
Mounting System	See Below



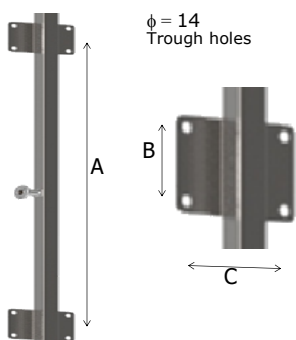
RADIATION PATTERN



H_pattern



V_pattern



MOUNTING SYSTEM

On frame according to the mounting lay-out beside, where:

- A = 1150 mm
- B = 90 mm
- C = 140 mm

Pole mount available on request.

Ordering Information

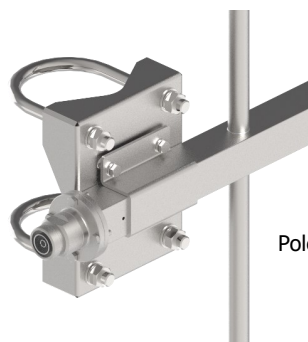
p/n	Input Connector	Max Power
BAN3200.01.01	7/16 (f) din	2.0 kW
BAN3200.01.02	7/8" EIA	3.5 kW

BAN033FX WB

VHF + DAB Four Elements Yagi

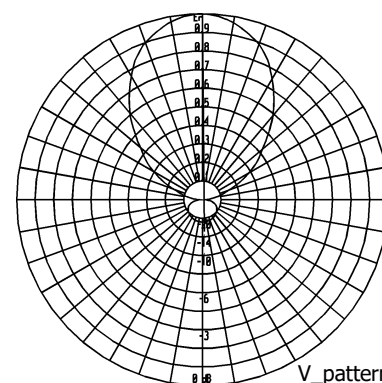
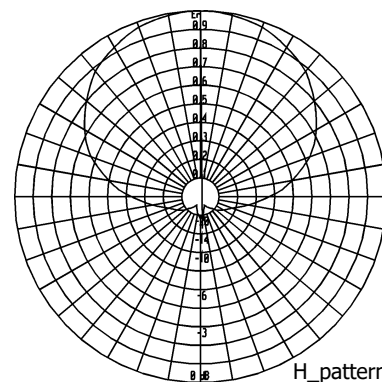
174 ÷ 230 MHz

Type	BAN033FX WB
ELECTRICAL	
Frequency	174 ÷ 230 MHz
Impedance	50 Ω unbalanced
V.S.W.R. (R.L)	< 1.25 (-19.1 dB)
Gain	5.3 dBd
HPBW H-pattern	± 53°
HPBW V-pattern	± 32°
Polarization	Vertical
Max power	See Below Table
Input connector	7/16 (f) din , 7/8"EIA
Lightning Protection	DC grounded
MECHANICAL	
Connector material	Nickel plated Brass
External parts material	Passivated Stainless Steel
Internal lines material	Passivated Aluminum
Insulators material	Virgin PTFE
Brackets and Hardware material	Stainless Steel
Pressurization	yes
Survival wind velocity	220 km/h
Wind load at 160 km/h Frontal	138 N
Wind load at 160 km/h Lateral	175 N
Dimensions	84 x 84 x 5 cm
Weight (incl. Brackets)	3.8 kg
Mounting System	See Below



Pole Mount Ø 60÷114 mm

RADIATION PATTERN



Ordering Information

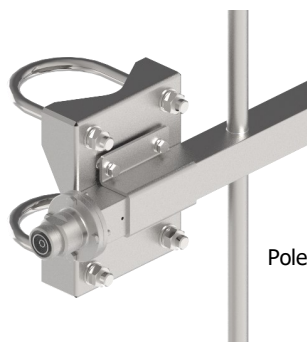
p/n	Input Connector	Max Power
BAN033FX WB.01	7/16 (f) din	1.5 kW
BAN033FX WB.02	7/8" EIA	2.0 kW

BAN039FX WB

VHF + DAB Six Elements Yagi

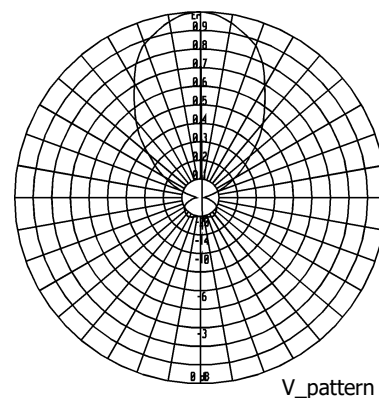
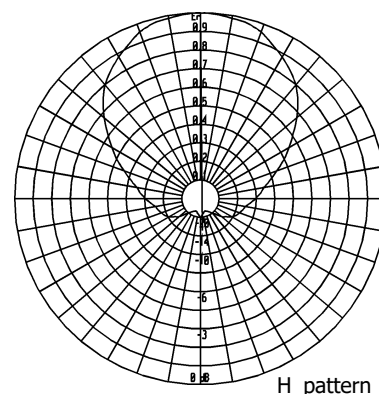
174 ÷ 230 MHz

Type	BAN039FX WB
ELECTRICAL	
Frequency	174 ÷ 230 MHz
Impedance	50 Ω unbalanced
V.S.W.R. (R.L)	< 1.30 (-17.7 dB)
Gain	8.0 dBd
HPBW H-pattern	± 40°
HPBW V-pattern	± 23°
Polarization	Vertical
Max power	See Below Table
Input connector	7/16 (f) din , 7/8" EIA
Lightning Protection	DC grounded
MECHANICAL	
Connector material	Nickel plated Brass
External parts material	Passivated Stainless Steel
Internal lines material	Passivated Aluminum
Insulators material	Virgin PTFE
Brackets and Hardware material	Stainless Steel
Pressurization	yes
Survival wind velocity	220 km/h
Wind load at 160 km/h Frontal	138 N
Wind load at 160 km/h Lateral	210 N
Dimensions	135 x 88 x 5 cm
Weight (incl. Brackets)	4.2 kg
Mounting System	See Below



Pole Mount Ø 60÷114 mm

RADIATION PATTERN



Ordering Information

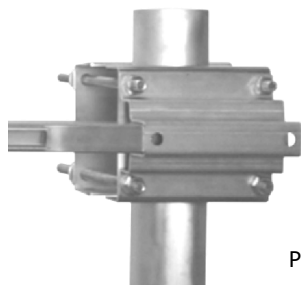
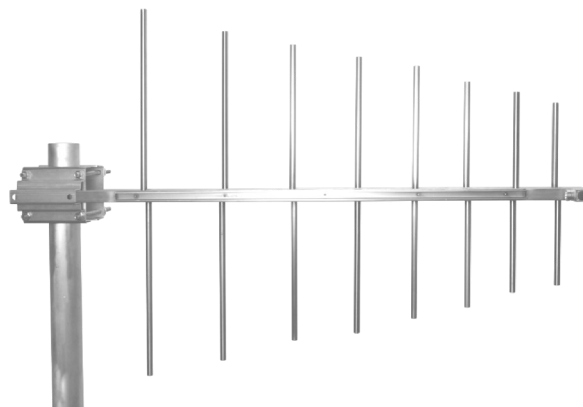
p/n	Input Connector	Max Power
BAN039FX WB.01	7/16 (f) din	1.5 kW
BAN039FX WB.02	7/8" EIA	2.0 kW

BAN3400

VHF + DAB Eight Elements Log Periodic

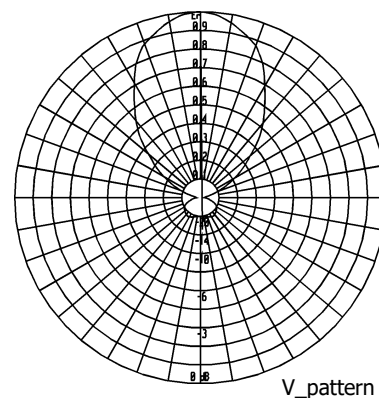
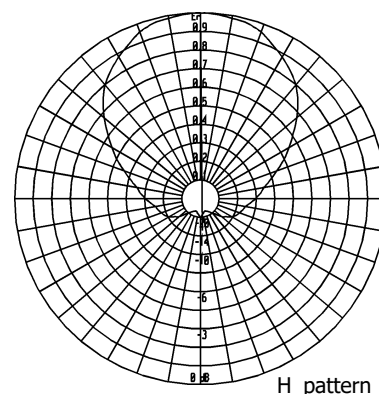
174 ÷ 230 MHz

Type	BAN3400
ELECTRICAL	
Frequency	174 ÷ 230 MHz
Impedance	50 Ω unbalanced
V.S.W.R. (R.L)	< 1.20 (-20.8 dB)
Gain	6.5 dBd
HPBW H-pattern	± 47°
HPBW V-pattern	± 30°
Polarization	Vertical
Max power	See Below Table
Input connector	n(f) , 7/16 (f) din
Lightning Protection	DC grounded
MECHANICAL	
Connector material	Nickel plated Brass
External parts material	Passivated Stainless Steel
Internal lines material	Passivated Aluminum
Insulators material	Virgin PTFE
Brackets and Hardware material	Stainless Steel
Pressurization	no
Survival wind velocity	180 km/h
Wind load at 160 km/h Frontal	148 N
Wind load at 160 km/h Lateral	290 N
Dimensions	142 x 92 x 8 cm
Weight (incl. Brackets)	11.5 kg
Mounting System	See Below



Pole Mount Ø 60 ÷ 114 mm

RADIATION PATTERN



Ordering Information

p/n	Input Connector	Max Power
BAN3400.00	n(f)	0.8 kW
BAN3400.01	7/16 (f) din	1.5 kW

BAN3500

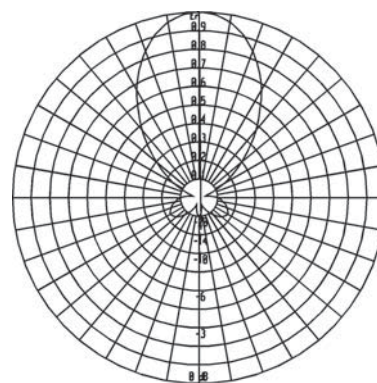
VHF + DAB Two Dipoles Panel

174 ÷ 230 MHz

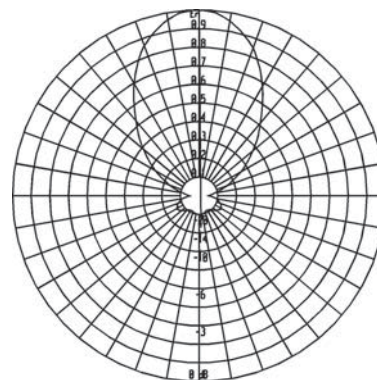
Type	BAN4300
ELECTRICAL	
Frequency	174 ÷ 230 MHz
Impedance	50 Ω unbalanced
V.S.W.R. (R.L)	< 1.12 (-24.9 dB)
Gain	7.5 dBd
HPBW H-pattern	± 29°
HPBW V-pattern	± 29°
Polarization	Vertical
Max power	See Below Table
Input connector	7/16 (f) din , 7/8"EIA
Lightning Protection	DC grounded
MECHANICAL	
Connector material	Nickel plated Brass
External parts material	Painted Alluminum
Internal lines material	Passivated Aluminum
Insulators material	Virgin PTFE
Brackets and Hardware material	Stainless Steel
Pressurization	no
Environment Protection	U.V. resistant A.B.S. Radome
Survival wind velocity	240 km/h
Wind load at 160 km/h Frontal	310 N
Wind load at 160 km/h Lateral	120 N
Dimensions	130 x 100 x 40 cm
Weight	14.0 kg
Mounting System	See Below



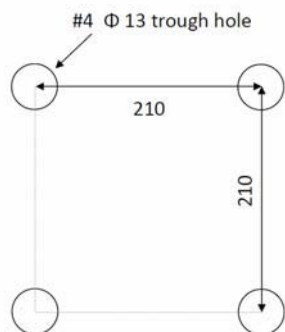
RADIATION PATTERN



H_pattern



V_pattern



Tower Mount drilling
Pole mount available upon request

Ordering Information

p/n	Input Connector	Max Power
BAN3500.01.01	7/16 (f) din	2.0 kW
BAN3500.01.02	7/8" EIA	3.5 kW

470÷860 MHz

TYPE	DESCRIPTION
BAN087	UHF Two Dipoles Panel
BAN4000	UHF Four Dipoles Panel Hor. Polarization
BAN0109BV	UHF Four Dipoles Panel Ver. Polarization
BAN4001	UHF Four Dipoles Panel Slant Polarization
BAN4009	UHF Multi Pol. Four Dipoles Panel
BAN4100	UHF 120° Four Dipoles Panel (470÷710 MHz)
BAN4200	UHF 120° Four Dipoles Panel (606÷710 MHz)
BAN4400	Two Bays Turnstile Omnidirectional
BAN4500	Four Bays Turnstile Omnidirectional

BAN087

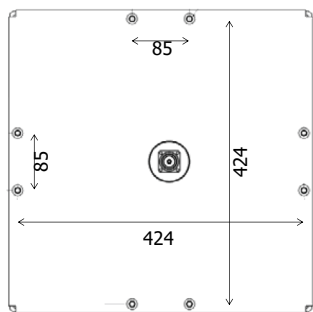
UHF Two Dipoles Panel

470 ÷ 860 MHz



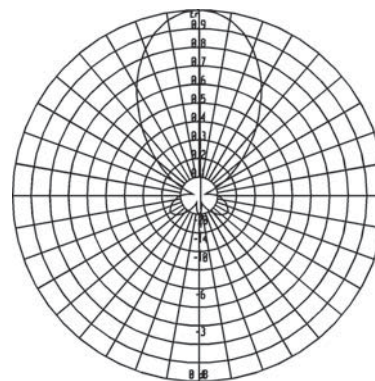
Type	BAN087
ELECTRICAL	
Frequency	470 ÷ 860 MHz
Impedance	50 Ω unbalanced
V.S.W.R. (R.L)	< 1.18 (-21.7 dB)
Gain	8.5 dBd
HPBW H-pattern	± 29°
HPBW V-pattern	± 29°
Polarization	Horizontal / Vertical
Max power	See Below Table
Input connector	7/16 (f) din , 7/8"EIA
Lightning Protection	DC grounded
MECHANICAL	
Connector material	Nickel plated Brass
Radiating Elements and back Plane	Passivated Stainless Steel
Internal lines material	Passivated Aluminum
Insulators material	Virgin PTFE
Brackets and Hardware material*	Hot dip galvanised Steel
Pressurization	yes
Environment Protection	U.V. resistant Fiberglass Radome
Survival wind velocity	240 km/h
Wind load at 160 km/h Frontal	400 N
Wind load at 160 km/h Lateral	220 N
Dimensions	52 x 52 x 25 cm
Weight	5.0 kg
Mounting System	See Below

* Order separately

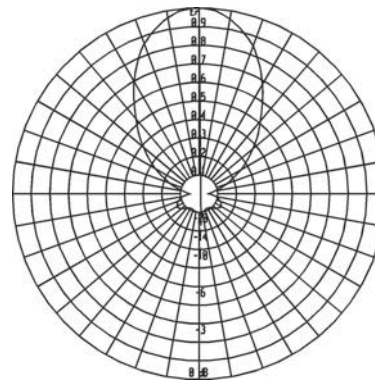


Tower Mount trough #8 M8 Treads
Pole mount available upon request

RADIATION PATTERN



H_pattern



V_pattern

Ordering Information

p/n	Input Connector	Max Power
BAN087.00	n(f)	0.8 kW
BAN087.01	7/16 (f) din	1.5 kW
BAN087.02	7/8" EIA	2.0 kW

BAN4000

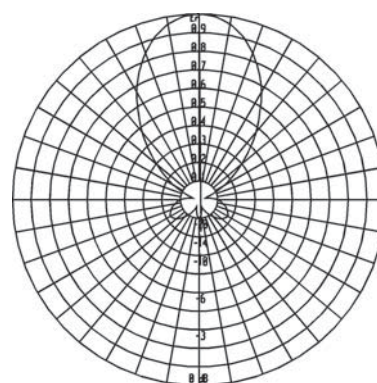
UHF Four Dipoles Panel Hor. Polarization

470 ÷ 860 MHz

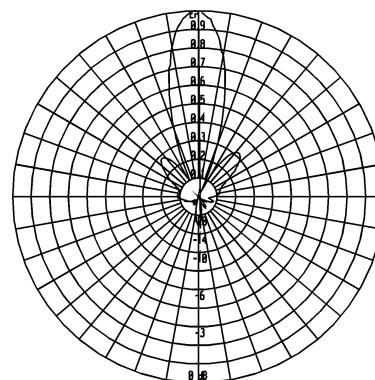
Type	BAN4000
ELECTRICAL	
Frequency	470 ÷ 860 MHz
Impedance	50 Ω unbalanced
V.S.W.R. (R.L)	< 1.1 (-26.4 dB)
Gain	11.5 dBd
HPBW H-pattern	± 30°
HPBW V-pattern	± 11.5°
Polarization	Horizontal
Max power	See Below Table
Input connector	7/16 (f) din , 7/8"EIA
Lightning Protection	DC grounded
MECHANICAL	
Connector material	Nickel plated Brass
Radiating Elements and back Plane	Passivated Stainless Steel
Internal lines material	Passivated Aluminum
Insulators material	Virgin PTFE
Brackets and Hardware material*	Hot dip galvanised Steel
Pressurization	yes
Environment Protection	U.V. resistant Fiberglass Radome
Survival wind velocity	240 km/h
Wind load at 160 km/h Frontal	890 N
Wind load at 160 km/h Lateral	400 N
Dimensions	100 x 52 x 25 cm
Weight	15.0 kg
Mounting System	See Below



RADIATION PATTERN

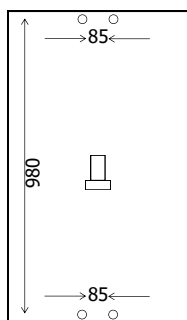


H_pattern



V_pattern

* Order separately



Tower Mount trough #4 M8 Treads
Pole mount available upon request

Ordering Information

p/n	Input Connector	Max Power
BAN4000.01	7/16 (f) din	1.5 kW
BAN4000.02	7/8" EIA	2.5 kW

BAN0109BV

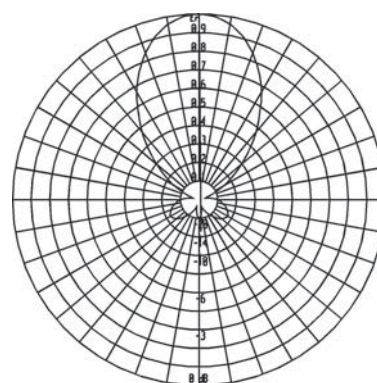
UHF Four Dipoles Panel Ver. Polarization

470 ÷ 860 MHz

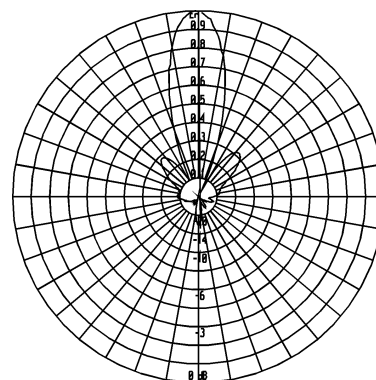
Type	BAN0109BV
ELECTRICAL	
Frequency	470 ÷ 860 MHz
Impedance	50 Ω unbalanced
V.S.W.R. (R.L)	< 1.12 (-24.9 dB)
Gain	10.8 dBd
HPBW H-pattern	± 30°
HPBW V-pattern	± 14°
Polarization	Vertical
Max power	See Below Table
Input connector	7/16 (f) din , 7/8"EIA
Lightning Protection	DC grounded
MECHANICAL	
Connector material	Nickel plated Brass
Radiating Elements and back Plane	Passivated Stainless Steel
Internal lines material	Passivated Aluminum
Insulators material	Virgin PTFE
Brackets and Hardware material*	Hot dip galvanised Steel
Pressurization	yes
Environment Protection	U.V. resistant Fiberglass Radome
Survival wind velocity	240 km/h
Wind load at 160 km/h Frontal	870 N
Wind load at 160 km/h Lateral	400 N
Dimensions	100 x 52 x 25 cm
Weight	11.0 kg
Mounting System	See Below



RADIATION PATTERN

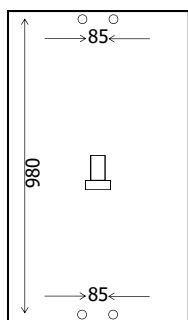


H_pattern



V_pattern

* Order separately



Tower Mount trough #4 M8 Treads
Pole mount available upon request

Ordering Information

p/n	Input Connector	Max Power
BAN0109BV.01	7/16 (f) din	1.5 kW
BAN0109BV.02	7/8" EIA	2.5 kW

BAN4001

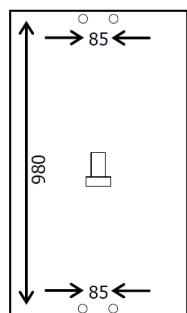
UHF Four Dipoles Panel Slant Pol.

470 ÷ 860 MHz

Type	BAN4001
ELECTRICAL	
Frequency	470 ÷ 860 MHz
Impedance	50 Ω unbalanced
V.S.W.R. (R.L)	< 1.1 (-26.5 dB)
Gain	11.5 dBd
HPBW H-pattern	± 30.0° (H.comp.) ± 28.0° (V.comp.)
HPBW V-pattern	± 12.5° (H.comp.) ± 11.5° (V.comp.)
Polarization	Horizontal 80% vertical 20%
Max power	See Below Table
Input connector	7/16 (f) din , 7/8"EIA
Lightning Protection	DC grounded
MECHANICAL	
Connector material	Nickel plated Aluminium
Radiating Elements and back Plane	Stainless Steel
Internal lines material	Passivated Aluminum
Insulators material	Virgin PTFE
Brackets and Hardware material*	Hot dip galvanised Steel
Pressurization	yes
Environment Protection	U.V. resistant Fiberglass Radome
Survival wind velocity	240 km/h
Wind load at 160 km/h Frontal	890 N
Wind load at 160 km/h Lateral	400 N
Dimensions	108 x 52 x 25 cm
Weight	15.0 kg
Mounting System	See Below

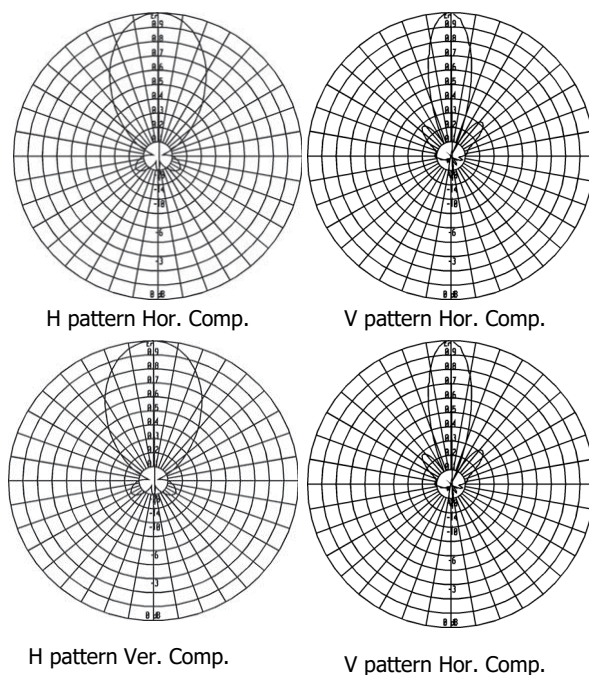


* Order separately



Tower Mount trough #4 M8 Treads
Pole mount available upon request

RADIATION PATTERN



Ordering Information

p/n	Input Connector	Max Power
BAN4001.01	7/16 (f) din	1.5 kW
BAN4001.02	7/8" EIA	2.5 kW

BAN4009

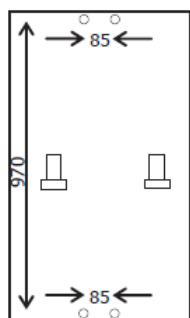
UHF Multi Pol. Four Dipoles Panel.

470 ÷ 740 MHz



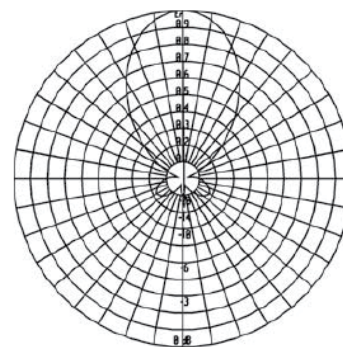
Type	BAN4009
ELECTRICAL	
Frequency	470 ÷ 740 MHz
Impedance	50 Ω unbalanced
V.S.W.R. (R.L)	< 1.12 (-25.0 dB)
Gain	11.0 dBd
HPBW H-pattern	± 30°
HPBW V-pattern	± 28°
Polarization	Hor. Ver. Circ. Ellipt.
Max power	See Below Table
Input connector	7/16 (f) din , 7/8"EIA
Lightning Protection	DC grounded
MECHANICAL	
Connector material	Nickel plated Brass
Radiating Elements and back Plane	Passivated Stainless Steel
Internal lines material	Passivated Aluminum
Insulators material	Virgin PTFE
Brackets and Hardware material*	Hot dip galvanised Steel
Pressurization	yes
Environment Protection	U.V. resistant Fiberglass Radome
Survival wind velocity	240 km/h
Wind load at 160 km/h Frontal	890 N
Wind load at 160 km/h Lateral	400 N
Dimensions	100 x 45 x 25 cm
Weight	15.0 kg
Mounting System	See Below

* Order separately

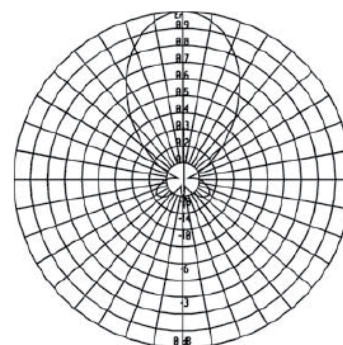


Tower Mount trough #4 M8 Treads
Pole mount available upon request

RADIATION PATTERN



h_pattern
Hor. Component



h_pattern
Ver. Component

Ordering Information

p/n	Input Connector	Max Power
BAN4009.01	7/16 (f) din	1.0 kW
BAN4009.02	7/8" EIA	1.5 kW

BAN4100

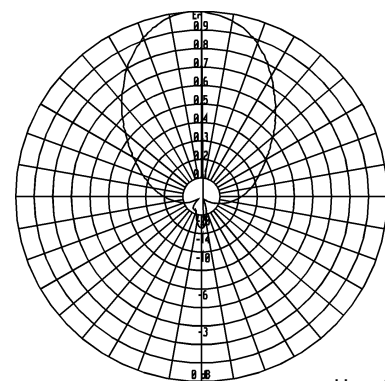
UHF 120° Four Dipoles Panel

470 ÷ 710 MHz

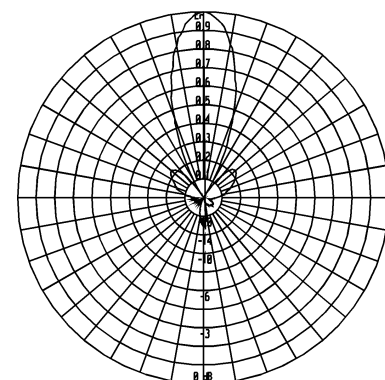
Type	BAN4100
ELECTRICAL	
Frequency	470 ÷ 710 MHz
Impedance	50 Ω unbalanced
V.S.W.R. (R.L)	< 1.09 (-27.3 dB)
Gain	10.0 dBd
HPBW H-pattern	± 38.0°
HPBW V-pattern	± 12.5°
Polarization	Horizontal
Max power	See Below Table
Input connector	7/16 (f) din , 7/8"EIA
Lightning Protection	DC grounded
MECHANICAL	
Connector material	Nickel plated Brass
Radiating Elements and back Plane	Passivated Stainless Steel
Internal lines material	Passivated Aluminum
Insulators material	Virgin PTFE
Brackets and Hardware material*	Hot dip galvanised Steel
Pressurization	yes
Environment Protection	U.V. resistant Fiberglass Radome
Survival wind velocity	240 km/h
Wind load at 160 km/h Frontal	700 N
Wind load at 160 km/h Lateral	300 N
Dimensions	108 x 53 x 25 cm
Weight	14.0 kg
Mounting System	See Below



RADIATION PATTERN

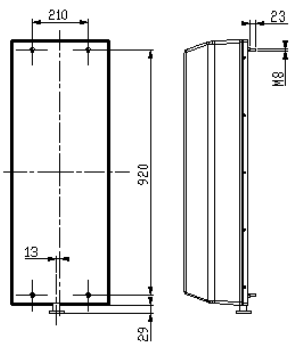


H_pattern



V_pattern

* Order separately



Tower Mount trough #4 M8 Treads
Pole mount available upon request

Ordering Information

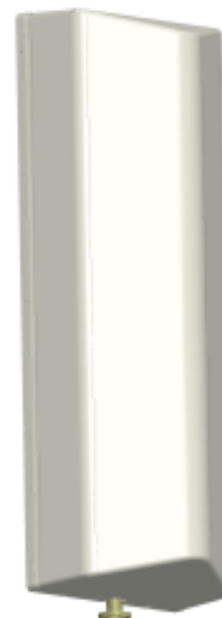
p/n	Input Connector	Max Power
BAN4100.01	7/16 (f) din	2.0 kW
BAN4100.02	7/8" EIA	3.3 kW

BAN4200

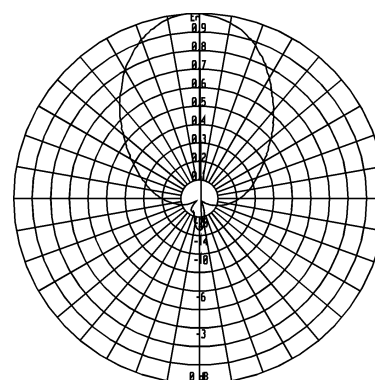
UHF 120° Four Dipoles Panel

606 ÷ 710 MHz

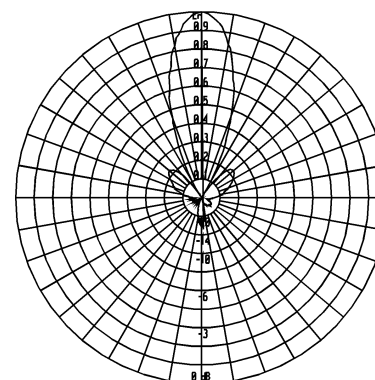
Type	BAN4200
ELECTRICAL	
Frequency	606 ÷ 710 MHz
Impedance	50 Ω unbalanced
V.S.W.R. (R.L)	< 1.09 (-27.3 dB)
Gain	10.0 dBd
HPBW H-pattern	± 38.0°
HPBW V-pattern	± 12.5°
Polarization	Horizontal
Max power	See Below Table
Input connector	7/16 (f) din , 7/8"EIA
Lightning Protection	DC grounded
MECHANICAL	
Connector material	Nickel plated Brass
Radiating Elements and back Plane	Passivated Stainless Steel
Internal lines material	Passivated Aluminum
Insulators material	Virgin PTFE
Brackets and Hardware material*	Hot dip galvanised Steel
Pressurization	yes
Environment Protection	U.V. resistant Fiberglass Radome
Survival wind velocity	240 km/h
Wind load at 160 km/h Frontal	700 N
Wind load at 160 km/h Lateral	300 N
Dimensions	108 x 53 x 25 cm
Weight	14.0 kg
Mounting System	See Below



RADIATION PATTERN

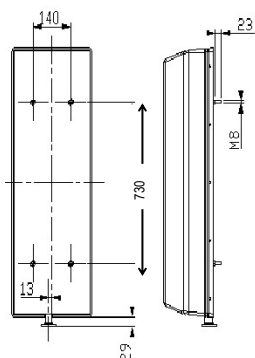


H_pattern



V_pattern

* Order separately



Tower Mount trough #4 M8 Treads
Pole mount available upon request

Ordering Information

p/n	Input Connector	Max Power
BAN4200.01	7/16 (f) din	1.5 kW
BAN4200.02	7/8" EIA	2.0 kW

BAN4400

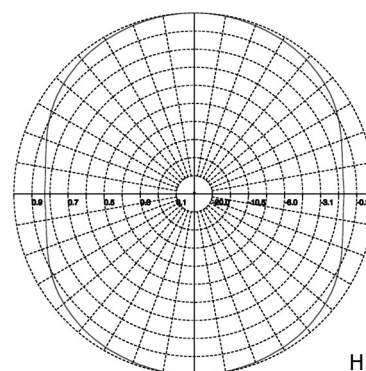
Two Bays Turnstile Omnidirectional

470 ÷ 860 MHz

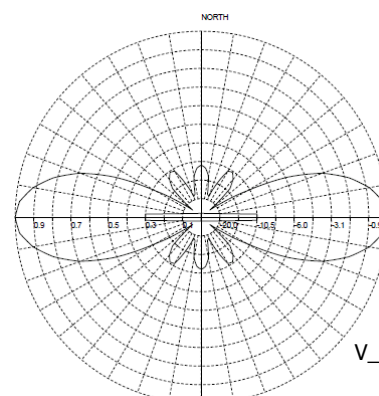
Type	BAN4400
ELECTRICAL	
Frequency	470 ÷ 860 MHz
Impedance	50 Ω unbalanced
V.S.W.R. (R.L)	< 1.12 (-24.9 dB)
Gain	5.5 dBd
HPBW H-pattern	See below
HPBW V-pattern	± 22°
Polarization	Horizontal
Max power	See Below Table
Input connector	7/16 (f) din , 7/8" EIA
Lightning Protection	DC grounded
MECHANICAL	
Connector material	Nickel plated Brass
Radiating Elements material	Passivated Aluminum
Internal lines material	Passivated Aluminum
Insulators material	Virgin PTFE
Brackets material	Hot dip galvanised Steel
Hardware material	Stainless Steel
Pressurization	no
Environment Protection	U.V. resistant A.B.S. Radome
Survival wind velocity	180 km/h
Wind load at 160 km/h	350 N
Dimensions	φ 36 x 150 cm
Weight (incl. Brackets)	24.0 kg
Mounting System	See Below



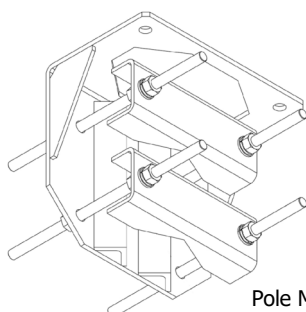
RADIATION PATTERN



H_pattern



V_pattern



Pole Mount Ø 60÷114 mm

Ordering Information

p/n	Input Connector	Max Power
BAN4400.01	7/16 (f) din	1.0 kW
BAN4400.02	7/8" EIA	2.0 kW

BAN4500

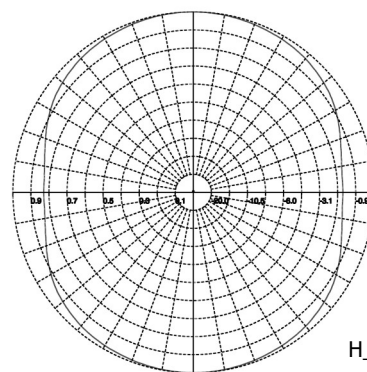
Four Bays Turnstile Omnidirectional

470 ÷ 860 MHz

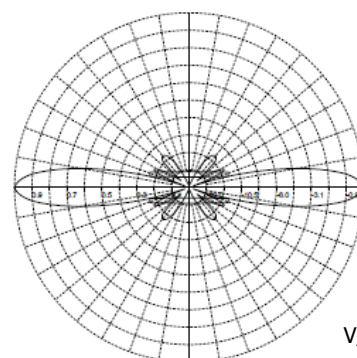
Type	BAN4500
ELECTRICAL	
Frequency	470 ÷ 860 MHz
Impedance	50 Ω unbalanced
V.S.W.R. (R.L)	< 1.12 (-24.9 dB)
Gain	8.5 dBd
HPBW H-pattern	See below
HPBW V-pattern	± 11°
Polarization	Horizontal
Max power	See Below Table
Input connector	7/16 (f) din , 7/8" EIA
Lightning Protection	DC grounded
MECHANICAL	
Connector material	Nickel plated Brass
Radiating Elements material	Passivated Aluminum
Internal lines material	Passivated Aluminum
Insulators material	Virgin PTFE
Brackets material	Hot dip galvanised Steel
Hardware material	Stainless Steel
Pressurization	no
Environment Protection	U.V. resistant A.B.S. Radome
Survival wind velocity	180 km/h
Wind load at 160 km/h	770 N
Dimensions	φ 36 x 300 cm
Weight (incl. Brackets)	65.0 kg
Mounting System	See Below



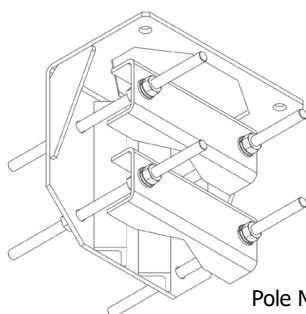
RADIATION PATTERN



H_pattern



V_pattern



Pole Mount Ø 60 ÷ 114 mm

Ordering Information

p/n	Input Connector	Max Power
BAN4500.02	7/8" EIA	2.0 kW
BAN4500.03	1 5/8" EIA	5.0 kW

POWER DIVIDERS

DESCRIPTION
EIA 3-1/8" Input Connector Power Dividers
EIA 1-5/8" Input Connector Power Dividers
EIA 7/8" Input Connector Power Dividers
DIN 7/16 Input Connector Power Dividers
N Input Connector Power Dividers

EIA 3-1/8" Input Connector Power Dividers

MAIN CHARACTERISTICS

Band	87.5 MHz	174÷245 MHz	470÷860 MHz
Lengh approx.	1650 mm	900 mm	570 mm
Input power up to	50 kW	40 kW	20 kW
Impedance	50 Ω		
V.S.W.R.	≤ 1.05 (32.2)		
Input connector	EIA 3-1/8"		
Insertion Loss	≤ 0.05		
Internal lines material	Silver plated Brass or Alluminium		
Outer conductor	Brass with protective paint		
Output connector	EIA 1+5/8" (EIA 7/8" available on request)		



In-phase outputs.

Standard with rotating input flanges and fixed output flanges (rotating output flanges on request).

Inners are not included (order separately).

Unbalanced power dividers available on request.

Brackets for pole mounting (70 - 114mm) type BAN-STAFFA-09 (order separately).

Power dividers for 174—242 MHz (DAB), available on request

All the dividers are equipped with Venting Hole for dual use with air and foam feeding cables.

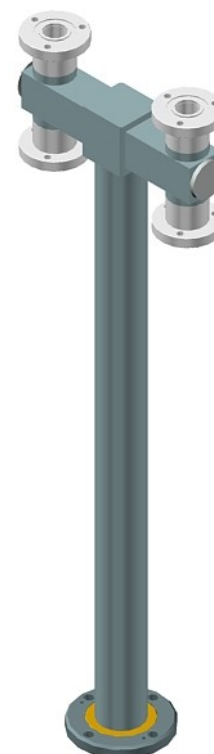
BALANCED POWER DIVIDERS OUT EIA 1+5/8"			
Number of outputs	87.5 - 108 MHz	174 - 245 MHz	470 - 860 MHz
2	3172	1172	1290
3	3173	1173	1490
4	3174	1174	1340
5	3175	1175	1370
6	3176	1176	1420
8	3178	1178	1520

BALANCED POWER DIVIDERS OUT DIN 7/8"			
Number of outputs	87.5 - 108 MHz	174 - 245 MHz	470 - 860 MHz
2	3182	1182	1291
3	3183	1183	1491
4	3184	1184	1341
5	3185	1185	1371
6	3186	1186	1421
8	3188	1188	1521

EIA 1-5/8" Input Connector Power Dividers

MAIN CHARACTERISTICS

Band	52 ÷ 88 MHz	87.5 ÷ 108 MHz	174 ÷ 245 MHz	470 ÷ 860 MHz
Lengh approx.	2500 mm	1650 mm	900 mm	610 mm
Input power up to	25 kW	15 kW	10 kW	5 kw
Impedance	50 Ω			
V.S.W.R.	≤ 1.05 (32.2)			
Input connector	EIA 1-5/8"			
Insertion Loss	≤ 0.05 dB			
Internal lines material	Silver plated Brass or Alluminium			
Outer conductor	Brass with protective paint			
Output connector	EIA 7/8" or 7/16 female (EIA 1 - 5/8" available on request)			



In-phase outputs.

Standard with rotating input flanges and fixed output flanges (rotating output flanges on request).

Inners are not included (order separately).

Unbalanced power dividers available on request.

Brackets for pole mounting (70 - 114mm) type ST-PS-78-158 (order separately).

Power dividers for 174—242 MHz (DAB), Available on request

All the dividers are equipped with venting hole for dual use with air and foam feeding cables.

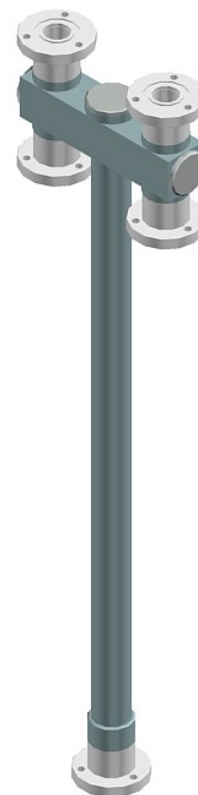
BALANCED POWER DIVIDERS OUT EIA 7/16"						
Number of outputs	52 - 59.5 MHz	61 - 68 MHz	80 - 88 MHz	87.5 - 108 MHz	174 - 245 MHz	470 - 860 MHz
2	6202A	6202B	6202C	3132	1142	1281
3	6203A	6203B	6203C	3133	1143	1481
4	6204A	6204B	6204C	3134	1144	1331
5	6205A	6205B	6205C	3135	1145	1381
6	6206A	6206B	6206C	3136	1146	1431
8	6208A	6208B	6208C	3138	1148	1531

BALANCED POWER DIVIDERS OUT DIN 7/8"						
Number of outputs	52 - 59.5 MHz	61 - 68 MHz	80 - 88 MHz	87.5 - 108 MHz	174 - 245 MHz	470 - 860 MHz
2	6212A	6212B	6212C	3112	1132	1280
3	6213A	6213B	6213C	3113	1133	1480
4	6214A	6214B	6214C	3114	1134	1330
5	6215A	6215B	6215C	3115	1135	1380
6	6216A	6216B	6216C	3116	1136	1430
8	6218A	6218B	6218C	3118	1138	1530

EIA 7/8" Input Connector Power Dividers

MAIN CHARACTERISTICS

Band	52 ÷ 88 MHz	87.5 ÷ 108 MHz	174 ÷ 245 MHz	470 ÷ 860 MHz
Length approx.	2500 mm	1650 mm	890 mm	630 mm
Input power up to	10 kW	5 kW	3.5 kW	2.5 kW
Impedance	50 Ω			
V.S.W.R.	≤ 1.05 (32.2)			
Input connector	EIA 7/8"			
Insertion Loss	≤ 0.1			
Internal lines material	Silver plated Brass or Alluminum			
Outer conductor	Brass with protective paint			
Output connector	EIA 7/8" or DIN 7/16 female (N female on request)			



In-phase outputs.

Standard with fixed input flanges and fixed output flanges (rotating output flanges on request).

Inners are not included (order separately).

Unbalanced output power dividers available on request.

Brackets for pole mounting (70 - 114mm) type ST-PS-78-158 (order separately).

Power dividers for 174–242 MHz (DAB), Available on request

All the dividers are equipped with venting hole for dual use with air and foam feeding cables

BALANCED POWER DIVIDERS OUT DIN 7/16 FEM.

Number of outputs	52 - 59.5 MHz	61 - 68 MHz	80 - 88 MHz	87.5 - 108 MHz	174 - 245 MHz	470 - 860 MHz
2	6112A	6112B	6112C	3122	1152	1260
3	6113A	6113B	6113C	3123	1153	1460
4	6114A	6114B	6114C	3124	1154	1310
5	6115A	6115B	6115	3125	1155	1360
6	6116A	6116B	6116C	3126	1156	1410
8	6118A	6118B	6118C	3128	1158	1510

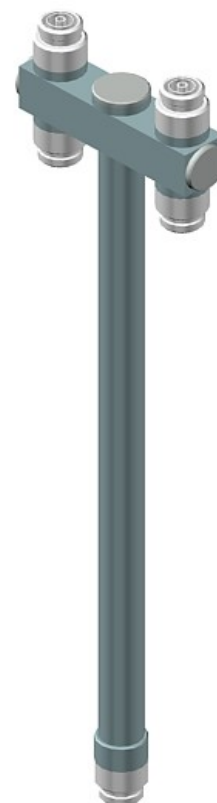
BALANCED POWER DIVIDERS OUT EIA 7/8"

Number of outputs	52 - 59.5 MHz	61 - 68 MHz	80 - 88 MHz	87.5 - 108 MHz	174 - 245 MHz	470 - 860 MHz
2	6102A	6102B	6102C	3102	1122	1250
3	6103A	6103B	6103C	3103	1123	1450
4	6104A	6104B	6104C	3104	1124	1300
5	6105A	6105B	6105C	3105	1125	1350
6	6106A	6106B	6106C	3106	1126	1400
8	6108A	6108B	6108C	3108	1128	1500

DIN 7/16 Input Connector Power Dividers

MAIN CHARACTERISTICS

Band	52 ÷ 88 MHz	87.5 ÷ 108 MHz	174 ÷ 245 MHz	470 ÷ 860 MHz
Length approx.	2500 mm	1650 mm	890 mm	610 mm
Input power up to	6 kW	3 kW	2.5 kW	1.5 kW
Impedance	50 Ω			
V.S.W.R.	≤ 1.06 (30.7)			
Input connector	DIN 7/16			
Insertion Loss	≤ 0.1			
Internal lines material	Silver plated Brass or Aluminium			
Outer conductor	Brass with protective paint			
Output connector	DIN 7/16 female or N female			



In-phase outputs.

Unbalanced output power dividers available on request.

Brackets for pole mounting (70 - 114mm) type ST-PS-78-158 (order separately).

Power dividers for 174 - 242 MHz (DAB)

BALANCED POWER DIVIDERS OUT DIN 7/16 DIN FEM.						
Number of outputs	52 - 59.5 MHz	61 - 68 MHz	80 - 88 MHz	87.5 - 108 MHz	174 - 245 MHz	470 - 860 MHz
2	6132A	6132B	6132C	3142	1112	1251
3	6133A	6133B	6133C	3143	1113	1451
4	6134A	6134B	6134C	3144	1114	1301
5	6135A	6135B	6135C	3145	1115	1351
6	6136A	6136B	6136C	3146	1116	1401
8	6137A	6137B	6137C	3148	1118	1501

BALANCED POWER DIVIDERS OUT N						
Number of outputs	52 - 59.5 MHz	61 - 68 MHz	80 - 88 MHz	87.5 - 108 MHz	174 - 245 MHz	470 - 860 MHz
2	6142A	6142B	6142C	3152	1162	1252
3	6143A	6143B	6143C	3153	1163	1452
4	6144A	6144B	6144C	3154	1164	1302
5	6145A	6145B	6145C	3155	1165	1352
6	6146A	6146B	6146C	3156	1166	1402
8	6147A	6147B	6147C	3158	1168	1502

N Input Connector Power Dividers

MAIN CHARACTERISTICS

Band	512 ÷ 88 MHz	87.5 ÷ 108 MHz	174 ÷ 245 MHz	470 ÷ 860 MHz
Lengh approx.	2400 mm	1650 mm	950 mm	610 mm
Input power up to	2 kW	0.8 kW	0.5 kW	0.3 kW
Impedance	50 Ω			
V.S.W.R.	≤ 1.10 (26.4)			
Input connector	N Female			
Insertion Loss	≤ 0.12 dB			
Internal lines material	Silver plated Brass or Alluminium			
Outer conductor	Brass with protective paint			
Output connector	N female			



In-phase outputs.

Unbalanced output power dividers available on request.

Brackets for pole mounting (70 - 114mm) type ST-PS-78-158 (order separately).

Power dividers for 174–242 MHz (DAB), available on request

BALANCED POWER DIVIDERS OUT N F						
Number of outputs	52 - 59.5 MHz	61 - 68 MHz	80 - 88 MHz	87.5 - 108 MHz	174 - 245 MHz	470 - 860 MHz
2	6122A	6122B	6122C	3162	1102	1202
3	6123A	6123B	6123C	3163	1103	1203
4	6124A	6124B	6124C	3164	1104	1204

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