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antennae solutions



research
development
production

www.2j-antennae.com



is a rapidly expanding company within the telecommunications sector, pushing the boundaries of antennae innovation for the modern wireless world.

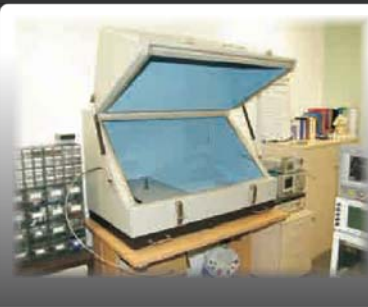
2J employ a range of modern design techniques including 3D modelling, computer simulations and rapid prototyping, in order to meet the requirements of the customer. On offer is a wide range of antennae for the use in GSM , GPRS , GPS , Galileo, Glonass and Telematic applications to name but a few, as well as producing an array of cable assemblies to customer specifications. Being an ISO 9001 : 2001 certified company. 2J manufactures high quality products at competitive prices.

Located in Slovakia, 2J is at the heart of the 'New Europe'. Slovakia is fast becoming a leading manufacturer within the European Union, especially within the automotive industry. 2J employ highly qualified workers and sub-contractors as well as selecting only reputable and reliable suppliers.

2J are currently supplying antennae solutions throughout Europe, including countries such as: UK, Republic of Ireland, France, Spain, Portugal, Netherlands, Germany, Italy, Greece, Slovakia, Czech Republic, Romania, Hungary, Russia, Latvia, Lithuania and Scandinavia. 2J is equidistant from its customers and therefore shipping costs and times are minimised.



**DEVELOPMENT
AND TESTING**



**ANECHOIC BOX/
SMALL CHAMBER**



**FULL SPHERICAL
RF MEASUREMENT**

- Contents
- INTRODUCTION
- PRODUCTION
- patch antennas
- magnetic mount antennas
- body mount antennas
- gps antennas
- gps combined
- glonass antennas
- telematic antennas
- gps pcb antennas modules
- gsm/gprs pcb antennas modules
- wifi/wimax antennas
- tetra antennas
- dvbt antennas
- house antennas
- yagi antennas
- connectors
- adaptors
- adaptor leads

Research & Development

Our Highly Qualified design team utilizes the latest design methods to help produce market leading antennae in the automotive, marine, navigation and wireless network industries. Our antennae can be analysed prior to production using the latest in EM simulation, while amplifier and filter circuits can be fully designed and tested using the latest capture and SPICE simulation software. PCBs are designed to industry standards and can be exported as Gerber RS274X, DXF or Drill Files.

3D Modelling is also used for the design of antennae housing and enclosures while rapid prototyping is available thanks to a close relationship with engineering universities. This enables us to perfect plastic injections prior to the antenna going into full production.

Our test department is capable of producing in-depth antenna and system reports including radiation patterns, using our top of the range test equipment that includes Network and Spectrum Analysers.



Sample
prototyping



Cnc
machinery



Injection
molds



Plastic
injection



Cable
assembly



Antenna
production



Packaging

2J500



specification

mounting	ON GLASS
frequency	GSM 900, 1800 MHz / PCN 1,9 GHz UMTS 2,1 GHz / BLUETOOTH 2,4GHz
vswr	<2:1
impedance	50 Ohms
polarization	VERTICAL
gain (dBi)	0 dBi
power handling	25W
cable	RG174
cable length	2.5 m
connector	FME Female
housing size	22 mm x 116,5 mm x 5-7 mm
operating temp.	-40°C to +85°C
	OTHER CONNECTOR UPON REQUEST

2J500L



specification

mounting	ON GLASS
frequency	TETRA,380-500 MHz / AMPS 824-894 MHz GSM 900, 1800 MHz / PCN 1,9 GHz UMTS 2,1 GHz / Bluetooth 2,4 GHz
vswr	<2:1
impedance	50 Ohms
polarization	VERTICAL
gain (dBi)	2.2dBi
power handling	25 W
cable	RG174
cable length	2.5 m
connector	FME Female
housing size	22 mm x 126,5 mm x 5 - 7 mm
operating temp.	-40°C to +85°C
	OTHER CONNECTOR UPON REQUEST

2J510



specification

mounting	ON GLASS
frequency	AMPS 824-894 MHz / GSM 900, 1800 MHz PCN 1,9 GHz/UMTS 2,1/BLUETOOTH 2,4 GHz
vswr	<2:1
impedance	50 Ohms
polarization	HORIZONTAL
gain (dBi)	2.14 dBi
power handling	25 W
cable	RG174
cable length	2.5 m
connector	FME Female
housing size	11-15 mm x 123 mm x 5 mm
operating temp.	-40°C to +85°C
	OTHER CONNECTOR UPON REQUEST



mounting	ON GLASS
frequency	AMPS 824-894 MHz/GSM 900/1800 MHz/ PCN 1,9GHz/UMTS 2,1GHz/BLEETOOTH 2,4GHz
vswr	<2:1
impedance	50 Ohms
polarization	HORIZONTAL
gain (dBi)	2.14 dBi
power handling	25W
cable	RG174
cable length	2.5 m
connector	FME Female
housing size	11-15 mm x 123 mm x 4,6 mm
operating temp.	-40 °C to +85 °C
OTHER CONNECTOR UPON REQUEST	

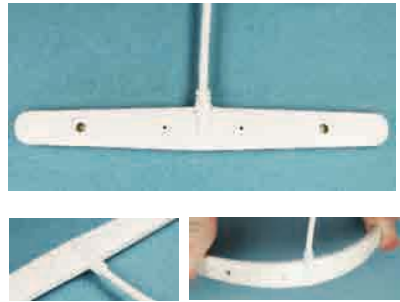
specification



2J510F Flexible

mounting	ON GLASS
frequency	AMPS 824-894 MHz/GSM 900/1800 MHz/ PCN 1,9GHz/UMTS 2,1GHz/BLEETOOTH 2,4GHz
vswr	<2:1
impedance	50 Ohms
polarization	HORIZONTAL
gain (dBi)	2.14 dBi
power handling	25 W
cable	RG174
cable length	2.5 m
connector	FME Female
housing size	11-15 mm x 123 mm x 4,6 mm
operating temp.	-40°C to +85°C
OTHER CONNECTOR UPON REQUEST	

specification



2J510FW Flexible

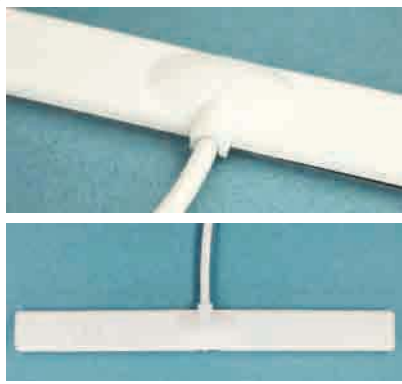
mounting	ON GLASS
frequency	AMPS 824-894 MHz/GSM 900/1800 MHz/ PCN 1,9GHz/UMTS 2,1GHz/BLEETOOTH 2,4GHz
vswr	<2:1
impedance	50 Ohms
polarization	HORIZONTAL
gain (dBi)	2.14 dBi
power handling	25 W
cable	RG174
cable length	2.5 m
connector	FME Female
housing size	117 mm x 12,5 mm x 4 mm
operating temp.	-40 °C to +85 °C
OTHER CONNECTOR UPON REQUEST	

specification



2J520 Flexible

2J520W Flexible



specification

mounting	ON GLASS
frequency	AMPS 824-894 MHz / GSM 900 / 1800 MHz PCN 1,9GHz/UMTS 2,1GHz/BLEETOOTH 2,4GHz
vswr	<2:1
impedance	50 Ohms
polarization	HORIZONTAL
gain (dBi)	2.14 dBi
power handling	25 W
cable	RG174
cable length	2.5 m
connector	FME Female
housing size	117 mm x 12,5 mm x 4 mm
operating temp.	-40°C to +85°C
OTHER CONNECTOR UPON REQUEST	

2J530



specification

mounting	ON GLASS
frequency	AMPS 824-894 MHz / GSM 900 / 1800 MHz PCN 1,9GHz/UMTS 2,1GHz/BLEETOOTH 2,4GHz
vswr	<2:1
impedance	50 Ohms
polarization	HORIZONTAL
gain (dBi)	0 dBi
power handling	60 W
cable	RG58
cable length	4.25 m
connector	FME Female
housing size	52 mm x 13 mm
operating temp.	-40°C to +85°C
OTHER CONNECTOR UPON REQUEST	

2J540



specification

mounting	ON GLASS
frequency	750MHz - 2,4GHz
vswr	<2:1
impedance	50 Ohms
polarization	VERTICAL
gain (dBi)	2.14 dBi
power handling	35 W
cable	RG174 or RG58
cable length	2.5 m
connector	FME Female
housing size	111,5 mm x 59 mm x 5,5 - 11,5 mm
operating temp.	-40°C to +85°C
OTHER CONNECTOR UPON REQUEST	



mounting	ON GLASS
frequency	750 MHz - 2,4 GHz
vswr	<2:1
impedance	50 Ohms
polarization	VERTICAL
gain (dBi)	2.14 dBi
power handling	35 W
cable	RG174
cable length	2.5 m
connector	FME Female
housing size	110 mm x 70 mm x 4,7 - 8 mm
operating temp.	-40°C to +85°C
OTHER CONNECTOR UPON REQUEST	

specification



2J542

mounting	ON GLASS
frequency	750 MHz - 2,4 GHz
vswr	<2:1
impedance	50 Ohms
polarization	VERTICAL
gain (dBi)	2.14 dBi
power handling	35 W
cable	RG174
cable length	2.5 m
connector	FME Female
housing size	110 mm x 70 mm x 4,7 - 8 mm
operating temp.	-40°C to +85°C
OTHER CONNECTOR UPON REQUEST	

specification



2J542F Flexible

mounting	ON GLASS
frequency	AMPS 824-894 MHz/GSM 900, 1800 MHz PCN 1,9GHz/UMTS 2,1GHz/BLEETOOTH 2,4GHz
vswr	<2:1
impedance	50 Ohms
polarization	VERTICAL
gain (dBi)	0 dBi
power handling	25W
cable	RG174
cable length	2.5 m
connector	FME Female
housing size	72 mm x 25 mm x 4,7 -6,3 mm
operating temp.	-40°C to +85°C
OTHER CONNECTOR UPON REQUEST	

specification



2J550

2J550F



specification

mounting	ON GLASS
frequency	AMPS 824-894MHz/GSM 900 / 1800 MHz PCN 1,9GHz/UMTS 2,1GHz/BLEETOOTH 2,4GHz
vswr	<2:1
impedance	50 Ohms
polarization	VERTICAL
gain (dBi)	0 dBi
power handling	25 W
cable	RG174
cable length	2.5 m
connector	FME Female
housing size	72 mm x 25 mm x 4,7-6,3 mm
operating temp.	-40 °C to +85 °C

OTHER CONNECTOR UPON REQUEST

2J800



specification

mounting	ON GLASS
frequency	GSM 900 / 1800 MHz-PCN 1900 MHz / UMTS 2100 MHz
vswr	0 dBi
impedance	50 Ohms
polarization	HORIZONTAL / VERTICAL
gain (dBi)	<2:1
power handling	25 W
cable	RG174
connector	upon request
housing size	38 x 70 x 5 mm & 38 x 70 x 12 mm
operating temp.	-40°C to +85°C

OTHER CONNECTOR UPON REQUEST

2J501



specification

mounting	ON GLASS
frequency	AMPS 824-894MHz / GSM 900, 1800 MHz / PCN 1,9 GHz UMTS 2,1 GHz / BLEETOOTH 2,4 GHz
vswr	<2:1
impedance	50 Ohms
polarization	VERTICAL
gain (dBi)	2,2 dBi
power handling	25 W
cable	RG174
cable length	2.5m
connector	FME Female
housing size	113 mm x 21 mm x 2,4 mm
operating temp.	-40°C to +85°C

OTHER CONNECTOR UPON REQUEST



mounting	ANY METALIC SURFACE(VEHICLE, COMPUTER,.)
frequency	AMPS 824-894 MHz/GSM 900,1800 MHz PCN 1,9 GHz / UMTS 2,1 GHz
vswr	<1,5:1
impedance	50 Ohms
power handling	30 W
polarization	VERTICAL
gain (dbi)	2.2 dBi Max
cable	RG174
cable length	2.5 m
connector	upon request
housing size	71,5 mm x 31 mm
working temp.	-40°C to +85°C

OTHER CONNECTORS UPON REQUEST

specification



2J300M Magnetic

mounting	ANY METALIC SURFACE(VEHICLE, COMPUTER,.)
frequency	AMPS 824-894 / GSM 900, 1800MHz PCN 1,9 GHz/UMTS 2,1 GHz
vswr	<2:1
impedance	50 Ohms
polarization	VERTICAL
power handling	30 W
gain (dbi)	2.2 dBi Max
cable	RG174
cable length	2.5 m
connector	upon request
housing size	72 mm x 31 mm
working temp.	-40°C to +85°C

OTHER CONNECTORS UPON REQUEST

specification



2J301M Magnetic

mounting	ANY METALIC SURFACE(VEHICLE, COMPUTER,.)
frequency	AMPS 824-868 MHz/ GSM 900,1800,1900 MHz UMTS 2,1 GHz, BLUETOOTH 2,4 GHz
vswr	<2:1
impedance	50 Ohms
polarization	VERTICAL
gain (dbi)	5 dBi at 2.4 GHz Bluetooth
power handling	30 W
cable	RG174
cable length	2.5 m
connector	upon request
housing size	238 mm x 31 mm
working temp.	-40°C to +85°C

OTHER CONNECTORS UPON REQUEST

specification



2J310M Magnetic



2J320M Magnetic



specification

mounting	ANY METALIC SURFACE(VEHICLE, COMPUTER,)
frequency	AMPS 824-894 MHz/GSM 900,1800 MHz PCN 1,9 GHz / UMTS 2,1 GHz
vswr	<2:1
impedance	50 Ohms
polarization	VERTICAL
gain (dbi)	5 dBi
power handling	30 W
cable	RG174
cable length	2.5 m
connector	upon request
housing size	300 mm x 31 mm
working temp.	-40°C to +85°C

OTHER CONNECTOR UPON REQUEST

2J330M Magnetic



specification

mounting	ANY METALIC SURFACE(VEHICLE, COMPUTER,)
frequency	TETRA 380 MHz to 500 MHz
vswr	<2:1
impedance	50 Ohms
polarization	VERTICAL
gain (dbi)	5 dBi (max.)
power handling	30 W
cable	RG174
cable length	2.5 m
connector	upon request
housing size	410 mm x 31 mm
working temp.	-40°C to +85°C

OTHER CONNECTOR UPON REQUEST

2J340M Magnetic



specification

mounting	ANY METALIC SURFACE (VEHICLE, COMPUTER,)
frequency	TETRA 380MHz to 500MHz/WIFI 2,4 GHz
vswr	<2:1
impedance	50 Ohms
polarization	VERTICAL
gain (dbi)	TETRA 2 dBi/WIFI 5 dBi
power handling	25 W
cable	RG174
cable length	2,5 m
connector	upon request
housing size	165 mm x 31 mm dia
working temp.	-40°C to +85°C

OTHER CONNECTOR UPON REQUEST

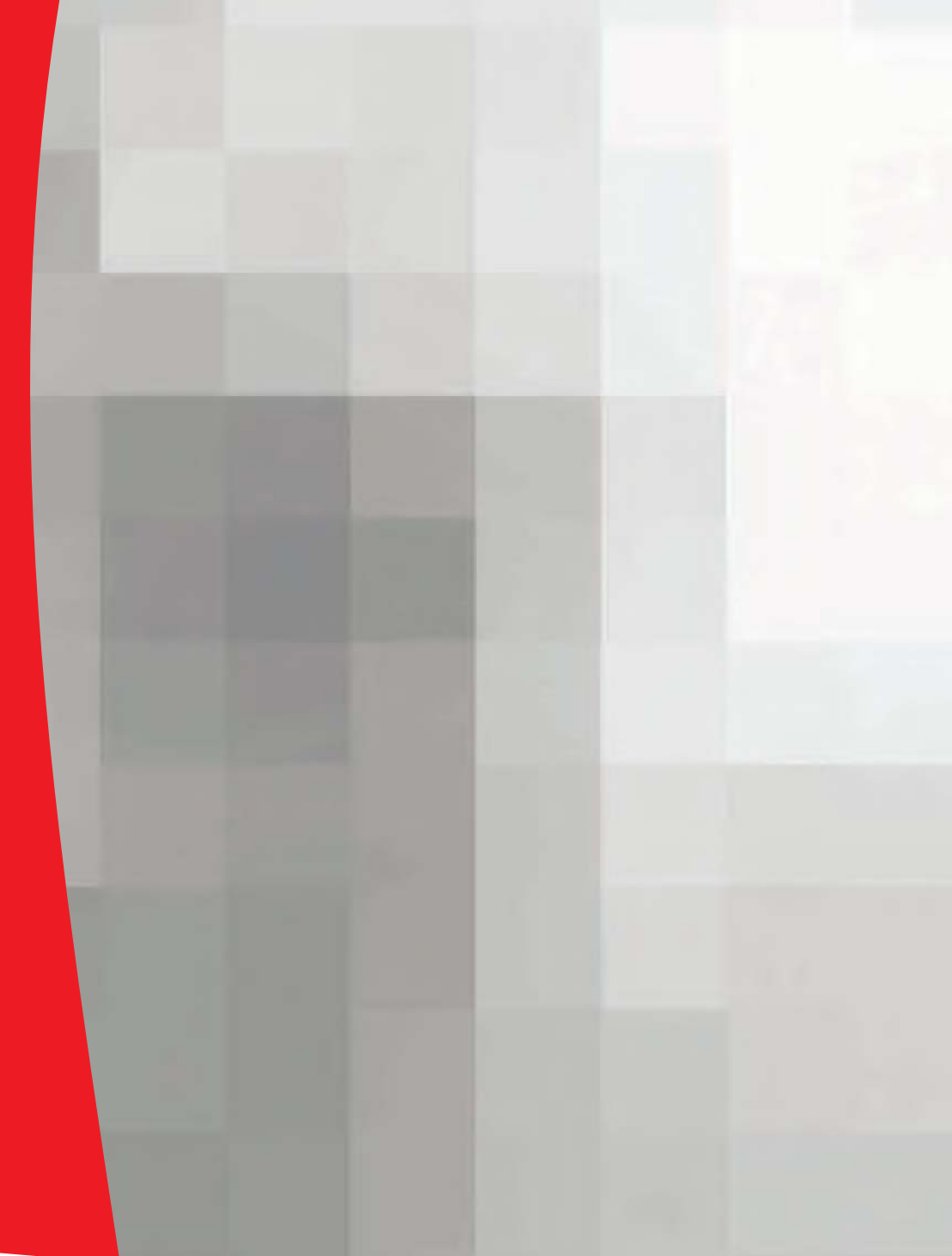


mounting	ANY METALIC SURFACE (VEHICLE, COMPUTER..)
frequency	AMPS 824-894 MHz / GSM 900,1800 MHz PCN 1,9 GHz/UMTS 2,1 GHz/BLEETOOTH 2,4 GHz
vswr	<2:1
impedance	50 Ohms
polarization	HORIZONTAL
gain (dbi)	2.14 dBi
power handling	50 W
cable	RG174
connector	upon request
housing size	80 mm x 75 mm x 13 mm
working temp.	-40°C to +85°C
	OTHER CONNECTOR UPON REQUEST

specification



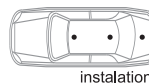
2U610M Magnetic



mounting position	BODY MOUNT
nominal impedance	50 Ohms
frequency	TETRA, 380-500 MHz
polarization	VERTICAL
gain	2,2 dBi Max
vswr	<2:1
power handling	100 W
cable type	RG58
cable length	4.25 m
connector	upon request
housing size	175 mm x 33 mm dia
working temp.	-40°C to +85°C

OTHER CONNECTOR UPON REQUEST

specification

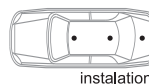


2J1 30B

mounting position	BODY MOUNT
nominal impedance	50 Ohms
frequency	GSM 900, 1800 MHz / PCN 1,9 GHz DCS / UMTS 2,1 GHz
polarization	VERTICAL
gain	0 dBi
vswr	<2:1
power handling	100 W
cable type	RG58
cable length	4.25 m
connector	upon request
housing size	67 mm x 29 mm
working temp.	-40°C to +85°C

OTHER CONNECTOR UPON REQUEST

specification

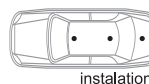


2J1 20BF

mounting position	BODY MOUNT
nominal impedance	50 Ohms
frequency	GSM 900, 1800 MHz / PCN 1,9 GHz DCS / UMTS 2,1 GHz
polarization	VERTICAL
gain	0 dBi
vswr	<2:1
power handling	100 W
cable type	RG58
cable length	4.25 m
connector	upon request
housing size	67 mm x 29 mm
working temp.	-40°C to +85°C

OTHER CONNECTOR UPON REQUEST

specification



2J1 20B



2J610B



specification

mounting position	BODY MOUNT
mounting hole	dia. 10,5 mm
nominal impedance	50 Ohms
frequency	AMPS 824-894 MHz / GSM 900,1800 MHz PCN 1,9 GHz/UMTS 2,1 GHz/BLUETOOTH 2,4 GHz
polarization	HORIZONTAL
gain	2.14 dBi
vswr	<2:1
power handling	50 W
cable type	RG 174
connector	upon request
housing size	80 mm x 75 mm x 15,5 mm
working temp.	-40°C to +85°C
OTHER CONNECTORS UPON REQUEST	

2J664B



specification

mounting	BODY MOUNT
frequency	AMPS 824-894/900/1800/1900/ 2100/2400 MHz
impedance	50 Ohms
polarization	HORIZONTAL
gain	2,2 dBi
vswr	<2:1
cable	RG 174
housing size	dia 70 mm x 15 mm
operating temperature	-40°C to +85°C
OTHER CONNECTORS UPON REQUEST	

2J670B



specification

mounting position	BODY MOUNT
frequency	AMPS/GSM 900/1800/1900/2100 MHz BLUETOOTH-WIFI 2400MHz/GPS 1575,42MHz
impedance	50 Ohms
power handling	25 W
gain	GPS: 26dB at 3V, 28dB at 5V, GSM: 2,2 dBi
VSWR	<2:1 for GSM, <1,2:1 for GPS
polarization	GPS RHCP, GSM: HORIZONTAL
current	15 mA - 25 mA
power max.	125 mW
voltage supply	2,7 - 5,5 V
cable	2xRG174
housing size	Dia 70mm x 36mm
working temperature	40°C to +85°C
OTHER CONNECTORS UPON REQUEST	



mounting	BODY MOUNT
frequency	1575,42 MHz
impedance	50 Ohms
polarization	RHCP
voltage supply	2,7 V - 5,5 V
current	15mA - 25mA
mounting hole	Hole to be drilled into metallic surface:10,5mm
gain (gps)	26dB (3V), 28dB (5V)
cable	RG174
cable length	2,5 m
connector	upon request
housing size	41 mm x 19 mm
operating temp.	-40°C to +85°C
OTHER CONNECTOR UPON REQUEST	

specification



2J410B

mounting	MAGNETIC
frequency	1575,42 MHz
impedance	50 Ohms
polarization	RHCP
voltage supply	2,7 V - 5,5 V
current	15mA - 25mA
gain (gps)	26dB (3V), 28dB (5V)
cable	RG174
cable length	2,5 m
connector	upon request
housing size	43,3 mm x 17,3 mm
operating temp.	-40°C to +85°C
OTHER CONNECTOR UPON REQUEST	

specification



installation

2J410M

mounting	PATCH
frequency	1575,42 MHz
impedance	50 Ohms
polarization	RHCP
voltage supply	2,7 V - 5,5 V
current	15mA - 25mA
gain	26dB (3V), 28dB (5V)
cable	RG174
cable length	2,5 m
connector	upon request
housing size	43,3 mm x 17,2 mm
operating temp.	-40°C to +85°C
OTHER CONNECTOR UPON REQUEST	

specification



installation

2J410P

2J431MP



installation



specification

mounting	MAGNETIC/PATCH
frequency	1575.42MHz
impedance	50 Ohms
polarization	RHCP
voltage supply	2,7 V - 5,5 V
current	15mA - 25mA
gain (gps)	26dB (3V), 28dB (5V)
cable	RG174
connector	upon request
housing size	38 mm x 34 mm x 13,7 mm
operating temp.	-40°C to +85°C

OTHER CONNECTOR UPON REQUEST

2J432MP



installation



specification

mounting	MAGNETIC/PATCH
frequency	1575.42MHz
impedance	50 Ohms
polarization	RHCP
voltage supply	2,7 V - 5,5 V
current	15mA - 25mA
gain	18 dBi
cable	RG174
cable length	2,5 m
connector	SMB FEMALE
housing size	38 mm x 34 mm x 13,7 mm
operating temp.	-40°C to +85°C

OTHER CONNECTOR UPON REQUEST

2J435MP



installation



specification

application	MAGNETIC/PATCH
frequency	1575,42 Mhz (GPS L1)
impedance	50 Ohms
polarization	RHCP
gain	24-26 dB
supply voltage	2,7 V - 5,5 V
current	15-25 mA (typ)
cable	upon request
cable length	upon request
connector	upon request
IP rating	IP 67
dimensions	28 mm x 21,5 mm x 13,1 mm
operating temperature	-40°C to +85°C

OTHER CONNECTOR UPON REQUEST



mounting	DASH BOARD, WINDSCREEN, ANY METALIC SURFACE
frequency	1575,42 MHz
vswr	<2:1
impedance	50 Ohms
power	125 mW max.
polarization	RHCP
voltage supply	1,8 V - 5 V
current	5 mA (1,8V), 13mA (3,3V), 25 mA (5V)
gain (gps)	32dB typ.(5V)
cable	RG174
cable length	upon request
connector	upon request
housing size	40 mm x 43 mm x 12,7 mm
operating temp.	-40°C to +85°C

OTHER CONNECTORS UPON REQUEST

specification



installation

2J450MP

mounting position	BODY MOUNT
application	Smart GPS
frequency	1575042 MHz
antenna element	25 mm/35 mm ceramic patch
LNA gain	PASSIVE
filter	SAW bandpass
interface	USB A male / UART Serial
supply voltage	2.7 V - 5 V
sensitivity	upon request
housing size	
working temperature	-40°C to +85°C

OTHER CONNECTORS UPON REQUEST

specification



installation

2J669B

mounting position	ANY SURFACE
VSWR	<1,2:1
frequency	GPS/GLONASS 1572-1610 MHz(filtered)
nominal impedance	50 Ohms
power max.	138 mW
voltage	2,7V to 5,5V
current	15 mA - 25 mA
LNA gain	23 dB at 3V, 24 dB at 5V
polarization	RHCP
cable	RG174
cable legth	upon request
connector	upon request
housing size	38 mm x 34 mm x 13,7 mm
working temperature	-40°C to +85°C

OTHER CONNECTORS UPON REQUEST

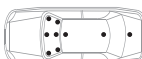
specification



2J900F



2J460MP



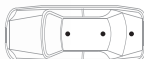
installation

specification

mounting	DASH BOARD, WINDSCREEN, ANY METALIC SURFACE
frequency	GSM 850 / 900 / 1800 / 1900 MHz / UMTS 1575.42 MHz
VSWR	<2:1
impedance	50 Ohms
polarization	RHCP, VERTICAL
gain	32 dB typ (5V)
voltage supply	1,8 V to 5 V
current	5 mA (1,8V), 13 mA (3,3V), 25 mA (5V)
power (max.)	125 mW
cable	upon request
cable length	upon request
housing size	40 mm x 50 mm x 12.7 mm
operating temp.	-40°C to +85°C

OTHER CONNECTORS UPON REQUEST

2J470B



installation

specification

mounting position	BODY MOUNT
frequency	GSM (900/1800MHz) UMTS, 1575.42MHz
voltage supply	1,8 V - 5 V
current	5 mA (1,8V), 13 mA (3,3V), 25 mA (5V)
impedance	50 Ohms
power max.	125 mW
polarization	RHCP/VERTICAL
gain	32 dB typ. (5V)
cable	RG174
cable length	upon request
connector	upon request
housing size	Dia 52 mm x 18 mm
working temp.	-40°C to +85°C

OTHER CONNECTORS UPON REQUEST



gpscombined

PRODUCT CATALOGUE

mounting	PATCH
frequency	AMPS 824-894MHz/UMTS/GSM/PCN/DCS/1,9GHz BLUETOOTH 2,4 GHz/GPS-1575,42 MHz
vswr	<2:1
impedance	50 Ohms
polarization	GSM: HORIZONTAL/ GPS: RHCP
voltage supply	2,7 V - 5,5 V
current	15 mA - 25 mA
gain (gps)	26dB (3V), 28dB (5V)
cable	RG174
cable length	2.5 m
connector	upon request
housing size	97 mm x 27 mm x 5,6 - 15,7 mm
operating temp.	-40°C to +85°C

OTHER CONNECTORS UPON REQUEST

specification



2J420

mounting position	PATCH
VSWR	<2:1
frequency	AMPS/GSM/PCN/ DCS/UMTS/GPS
nominal impedance	50 Ohms
power max.	125 mW
voltage	2,8V to 5,5V
current	15 mA - 25 mA
LNA gain	27dB
polarization	GSM: HORIZONTAL, GPS: RHCP
cable	RG174
cable length	upon request
connector	upon request
housing size	77 mm x 34 mm x 13,5mm
working temperature	-40°C to +85°C

OTHER CONNECTORS UPON REQUEST

specification



2J425

mounting position	PATCH
VSWR	<2:1
frequency	AMPS/GSM/PCN/DCS/UMTS
nominal impedance	50 Ohms
power max.	125 mW
voltage	2,8V to 5,5V
current	15 mA - 25 mA
LNA gain	27 dB
polarization	GSM/WIFI: HORIZONTAL/GPS: RHCP
cable	3 x RG174
cable length	upon request
connector	upon request
housing size	77 mm x 34 mm x 13,5mm
working temperature	-40°C to +85°C

OTHER CONNECTORS UPON REQUEST

specification



2J426

2J600B



installation

specification

mounting	BODY MOUNT
frequency	AMPS 824-894 MHz / GSM 900/GSM 1800 DCS 1900 / UMTS 2100 / GPS 1575.42 MHz
vswr	<2:1
impedance	50 Ohms
polarization	GSM: HORIZONTAL / GPS: RHCP
voltage supply	2,7 V - 5,5 V
current	15mA - 25mA
gain (gps)	26dB (3V), 28dB (5V)
power max.	125 mW
power handling	50 W
cable	RG174
cable length	upon request
mounting hole	dia. 10,5 mm
housing size	80 mm x 75mm x 15,5 mm
operating temp.	-40°C to +85°C

OTHER CONNECTORS UPON REQUEST

2J600M



installation

specification

mounting	MAGNETIC
frequency	AMPS/900/1800/1900 MHz/UMTS 2,1 GHz GPS 1575.42 MHz
vswr	<2:1
impedance	50 Ohms
polarization	GSM: HORIZONTAL / GPS: RHCP
voltage supply	GPS: 2,7 V - 5,5 V
current	15 mA - 25 mA
gain (gps)	26dB (3V), 28dB (5V)
power max.	125 mW
power handling	50 W
cable	upon request
connector	upon request
housing size	80 mm x 75 mm x 13 mm
operating temp.	-40°C to +85°C

OTHER CONNECTORS UPON REQUEST

2J615B



installation

specification

mounting	BODY MOUNT
frequency	TETRA 380MHz - 500MHz/GPS:1575,42MHz
VSWR	<2:1
impedance	50 Ohms
polarization	TETRA: HORIZONTAL / GPS: RHCP
gain (dbi)	TETRA: 0dBi/GPS: 28dB at 5V, 26dB at 3V
power handling	50 W
voltage supply	2,7 V to 5,5 V
current	15 - 25 mA
power (max.)	125 mW
mounting hole	dia. 10,5 mm
cable	upon request
connector	upon request
housing size	75 mm x 80 mm x 15,5 mm
operating temp.	-40°C to +85°C

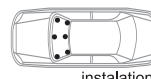
OTHER CONNECTORS UPON REQUEST



mounting	PATCH
frequency	AMPS / GSM 900 / 1800 / 1900 / 2100 / 2400 GPS 1575.42 MHz
vswr	<2:1
impedance	50Ohms
polarization	GSM: VERTICAL/HORIZONTAL,GPS:RHCP
gain (dbi)	2.14 dBi
power handling	25 W
voltage supply	2,7 V - 5,5 V
current	15 mA - 25 mA
power (max.)	125 mW
gain (gps)	26dB (3V), 28dB (5V)
cable cellular	RG174
cable GPS	RG174
housing size	78 mm x 12 mm
operating temp.	-40°C to +85°C

OTHER CONNECTORS UPON REQUEST

specification



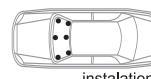
installation

2J620P

mounting position	MAGNETIC/PATCH
frequency	AMPS / GSM 900/1800/1900/2100/2400 GPS 1575,42 MHz
voltage supply	2,7 V - 5,5 V
current	15 mA - 25 mA
impedance	50 Ohms
VSWR	<2:1 in 900/1800/2100/2400, <1.2:1 in GPS
power max.	125 mW
polarization	GPS:RHCP, GSM:HORIZONTAL/VERTICAL
power handling	25 W
gain	GPS: 26 dB at 3V, 28 dB at 5V, GSM: 0 dBi
cable	2 x RG174 or 1 x Twin RG174
housing size	Dia 52.5 mm x 13 mm
working temp.	-40°C to +85°C

OTHER CONNECTORS UPON REQUEST

specification



installation

2J630

mounting position	BODY MOUNT
frequency	AMPS / GSM 900 / 1800 / 1900 / 2100MHz, Bluetooth-Wifi 2400 MHz/ GPS 1575.42MHz
gain	GPS: 26dB at 3V, 28dB at 5V GSM: 2.2dBi
power handling	25W
impedance	50 Ohms
voltage supply	2,7 V - 5,5 V
power max.	125 mW
current	15mA - 25mA
VSWR	<1,2:1 for GPS <2:1 for GSM
polarization	GPS: RHCP; GSM: HORIZONTAL
cable	2 x RG174
housing size	Dia 70mm x 15mm
working temp.	-40°C to +85°C

OTHER CONNECTORS UPON REQUEST

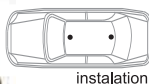
specification



installation

2J660B

2J640B



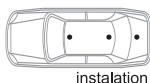
installation



specification

mounting position	BODY MOUNT
frequency	AMPS 824-894MHz / GSM 900 MHz / GSM 1800 / UMTS 2100/ GPS 1575,42 MHz / WLAN 2400
impedance	50 Ohms
VSWR	<2:1 in all bands
polarization	GPS: RHCP/GSM: HORIZONTAL WIFI: HORIZONTAL
gain	26 dB (3V) 28dB (5V)
Gain (dBi)	0 dBi
current	15mA - 25mA
Power (max.)	125mW
power handling	25W
voltage supply	2,7 V - 5,5 V
cable	RG174, connectors: upon request
housing size	80 mm x 75 mm x 15,5 mm
working temp.	-40°C to +85°C
OTHER CONNECTORS UPON REQUEST	

2J860B



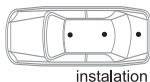
installation



specification

mounting position	BODY MOUNT
frequency	AMPS / 900/1800/1900/2100 MHz Bluetooth-Wifi 2400 MHz/GPS / Glonass
impedance	50 Ohms
gain	GPS: 26dB at 3V, 28dB at 5V GSM: 3dBi max.
noise figure	GPS/Glonass 1.15dB
voltage supply	2,7V - 5,5V
current	15mA - 25mA
power max.	138 mW
VSWR	<2:1 for GSM <1,2:1 for GPS
polarization	GPS: RHCP; GSM: VERTICAL
cable	2 x RG174
housing size	98 mm x 58 mm x 50 mm (LxWxH)
working temperature	-40°C to +85°C

2J850B



installation



specification

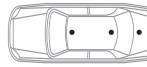
mounting	BODY MOUNT
frequency	AM/FM/AMPS/GSM/BLUETOOTH/ WIFI/GPS
polarization	GPS: RHCP / GSM: VERTICAL
VSWR	<2:1 for GSM <1,2:1 for GPS
impedance	50 Ohms
voltage supply (AM/FM)	12 V - 15 V
voltage supply (gps)	2.7 V - 5.5 V
current	15 mA - 25 mA
gain	GPS 27 dB at 5V, FM 5 - 10 dB
cable	3 x RG174
connectors	upon request
dimensions	max. 98 mm x 58 mm x 430 mm
operating temp.	-40°C to +85°C
OTHER CONNECTORS UPON REQUEST	



mounting position	BODY MOUNT
frequency	GPS/GLONASS:1572-1610 MHz/ TETRA:380-500 MHz
impedance	50 Ohms
gain	GPS / GLONASS: 27dB at 5V, TETRA: 2dBi max.
voltage supply	2,7 V - 5,5 V
current	15 mA - 25 mA
VSWR	<2:1 for TETRA <1,2:1 for GPS/GLONASS
polarization	GPS/GLONASS: RHCP; TETRA: VERTICAL
cable	upon request
connector	upon request
housing size	92 mm x 52 mm x 157 mm
working temperature	-40°C to +85°C

OTHER CONNECTORS UPON REQUEST

specification



instalation

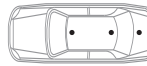


21857B

mounting position	BODY MOUNT
frequency	GPS / Glonass: 1572-1610 MHz / TETRA: 380 - 500 MHz / AMPS / GSM 900 / 1900 / 2100 / 2400 MHz
impedance	50 Ohms
gain	GPS/Glonass: 27 dBi at 5 V, GSM: 3dBi max., TETRA: 2dBi max.
voltage supply	2,7 V - 5,5 V
current	15 mA - 25 mA
VSWR	<2:1 for GSM/TETRA <1,2:1 in GPS/Glonass
polarization	GPS/Glonass: RHCP; GSM/TETRA: VERTICAL
connectors	upon request
cable	3 x RG174
housing size	max. 92 mm x 52 mm x 157 mm
working temperature	-40°C to +85°C

OTHER CONNECTORS UPON REQUEST

specification



instalation

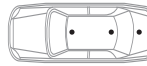


21858B

mounting position	BODY MOUNT
frequency	AMPS/900/1800/1900/2100 MHz Bluetooth-Wifi 2400 MHz / GPS / Glonass
impedance	50 Ohms
gain	GPS/GLONASS: 26dB - 27 dB(LNA) GSM: 3dBi max., WIFI: 3 dBi max.
noise figure	GPS/Glonass 1.15dB
voltage supply	2,7 V - 5,5 V
current	15 mA - 25 mA
power max.	138 mW
VSWR	<2:1 for GSM <1,2:1 for GPS,<1,5:1 for WIFI
polarization	GPS/Glonass:RHCP,GSM/WIFI:VERTICAL
cable	3 x RG174, connector: upon request
housing size	91 mm x 52 mm x 48 mm (LxWxH)
working temperature	-40°C to +85°C

OTHER CONNECTORS UPON REQUEST

specification



instalation



21866



Heavy duty antennae from the 600 series
are suitable for industrial vehicles as well as M2M applications

mounting position	MAGNETIC/PATCH
frequency	1575,42-1610 MHz
nominal impedance	50 Ohms
power max.	125 mW
voltage	2,7 V to 5,5 V
current	15 mA - 25 mA
gain	GPS: 18dB -GPS/ Glonass: 18dB
polarization	RHCP
cable	RG174
cable leght	upon request
connector	upon request
housing size	38 mm x 34 mm x 13.7mm
working temperature	-40°C to +85°C

specification



2J432G

mounting position	MAGNETIC/PATCH
frequency	GPS/Glonass: 1572 - 1610 MHz
nominal impedance	50 Ohms
voltage	2,7 V to 5,5 V
current	15 mA - 25 mA
gain	26 dB at 3 V, 28 dB at 5 V
polarization	RHCP
cable	RG174
vswr	<1,2:1
power (max.)	138 mW
connector	upon request
housing size	38 mm x 34 mm x 14,2 mm
working temperature	-50°C to +85°C

specification



2J433G

mounting position	BODY MOUNT
frequency	AMPS / GSM 900 / 1800 / 1900 / 2100 MHz/Bluetooth-Wifi 2400 MHz/ GPS 1575.42MHz Glonass 1570 MHz - 1610 MHz
nominal impedance	50 Ohms
gain	GPS: 26dB at 3V, 28dB at 5V GSM: 2.2dBi, Glonass 24-26dBi
power handling	25W
voltage supply	2,7 V - 5,5 V
current	15 mA - 25 mA
power max.	125 mW
VSWR	<2:1 for GSM, <1,2:1 for GPS
polarization	GPS: RHCP; GSM: VERTICAL
cable	2 x RG174
housing size	Dia 70 mm x 15 mm
working temperature	-40°C to +85°C

specification



2J60BG

2J010



specification

frequency	AMPS / GSM 900 / GSM 1800 UMTS 2100 / BLUETOOTH 2400 MHz
vswr	<2:1
impedance	50 Ohms
polarization	VERTICAL
gain (dbi)	2.2 dBi (max)
connector	SMA Male R/A
housing size	52 mm x 6,7 - 9,6 mm
working temp.	-40°C to +85°C

2J020



specification

frequency	AMPS / GSM 900 / GSM 1800 UMTS 2100 / BLUETOOTH 2400 MHz
vswr	<2:1
impedance	50 Ohms
polarization	VERTICAL
gain (dbi)	2.2dBi (max.)
connector	SMA Male
housing size	55 mm x 6,7 - 9,65 mm
working temp.	-40°C to +85°C

2J020W



specification

frequency	AMPS / GSM 900 / PCN 1800 / UMTS 2100 / BLUETOOTH 2400 MHz
vswr	<2:1
impedance	50 Ohms
polarization	VERTICAL
gain (dbi)	2.2 dBi (max.)
connector	SMA Male
housing size	55 mm x 6,7 - 9,65 mm
working temp.	-40°C to +85°C

2J030W



specification

frequency	AMPS / GSM 900 / GSM 1800 / UMTS 2100 / BLUETOOTH 2400 MHz
vswr	<2:1
impedance	50 Ohms
polarization	VERTICAL
gain (dbi)	2.2dBi
connector	FME Female
housing size	61 mm x 6,7 - 9,65 mm
working temp.	-40°C to +85°C





specification

frequency	AMPS / GSM 900 / GSM 1800 / UMTS 2100 / BLUETOOTH 2400 MHz
vswr	<2:1
impedance	50 Ohms
polarization	VERTICAL
gain (dbi)	2.2 dBi (max.)
connector	FME Female right angle
housing size	53 mm x 6,7 - 9,65 mm
working temp.	-40°C to +85°C

2J040



specification

frequency	AMPS / GSM 900 / GSM 1800 / UMTS 2100 / BLUETOOTH 2400 MHz
vswr	<2:1
impedance	50 Ohms
polarization	VERTICAL
gain (dbi)	2.2 dBi (max.)
connector	SMA Male
housing size	54 mm x 6,7 - 9,65 mm
working temp.	-40°C to +85°C

2J050



specification

frequency	AMPS / GSM 900 / GSM 1800 UMTS 2100 / BLUETOOTH 2400 MHz
vswr	<2:1
impedance	50 Ohms
polarization	VERTICAL
gain (dbi)	2.2 dBi (max.)
connector	TNC Male
housing size	61,6 mm x 6,7 - 9,7 mm
working temp.	-40°C to +85°C

2J064



specification

mounting	TELEMATIC
frequency	TETRA: 380 MHz-500 MHz, 1/4 wave
bandwidth	Fo +/- 20 MHz
vswr	<2:1
impedance	50 Ohms
gain (dbi)	2 dBi
polarization	VERTICAL
connector	SMA Male
housing size	133 mm x 9,7 - 12,9 mm
working temp.	-40°C to +85°C

2JW08 Flexi

2JW04



specification

frequency	GSM 900 MHz / GSM 1800 MHz
vswr	<2:1
impedance	50 Ohms
polarisation	VERTICAL
gain (dbi)	2.2 dB at 900 MHz
connector	FME Female
housing size	146 mm x 8 - 10 mm dia.
working temp.	-40°C to +85°C

2JW03



specification

frequency	WIFI / BLUETOOTH 2.4 GHz
vswr	<2:1
impedance	50 Ohms
polarization	VERTICAL
gain (dbi)	5dBi
Swivel	0° to 90°
connector	SMA Male RP
housing size	187.5mm x 9.6mm dia.
working temp.	-40°C to +85°C

2JW032



specification

frequency	BLUETOOTH / WIFI 2.4 GHz
vswr	<2:1
impedance	50 Ohms
polarization	VERTICAL
gain	2,2 dBi
connector	upon request
swivel	0° / 90°
size	112,5 mm x 8,6 - 9,8 mm dia
working temperature	-40°C to +85°C

2JW035

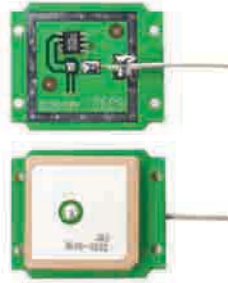


specification

frequency	2,4 GHz
vswr	<2:1
impedance	50 Ohms
polarisation	vertical
gain	2 dBi
connector	upon request
swivel	0° / 90°
size	75.5mm x 9.6mm dia
working temperature	-40 to +85°C°C

frequency	GPS 1575.42MHz
vswr	<1.2:1
impedance	50 Ohms
polarisation	RHCP
voltage supply	2,7 V - 5,5 V
current	15 mA - 25 mA
power (max.)	125 mW
gain (gps)	26dB (3V), 28dB (5V)
cable	Upon Request
cable length	Upon Request
connector	Upon Request
size	34 mm x 29 mm x 8 mm
operating temp.	-40°C to +85°C

specification



2JFOM - module

frequency	1575,42 MHz
vswr	<1.2:1
impedance	50 Ohms
polarization	RHCP
voltage supply	2,7 V - 5,5 V
current	15mA - 25mA
power (max.)	125mW
gain (gps)	26dB (3V), 28dB (5V)
noise figure	1,15 dBi
cable	Upon Request
connector	Upon Request
size	26 mm x 26 mm x 8,6 mm
operating temp.	-40°C to +85°C

specification



2J402S - module

frequency	1575.42MHz
vswr	<1.2:1
impedance	50 Ohms
polarisation	RHCP
voltage supply	2,7 V - 5,5 V
current	15mA - 25mA
power (max.)	125mW
gain (gps)	26dB (3V), 28dB (5V)
noise figure	1,15 dBi
cable	Upon Request
connector	Upon Request
size	26 mm x 26 mm x 7,5 mm
operating temp.	-40°C to +85°C

specification



2J402U - module

frequency	1575.42MHz
vswr	<2:1
impedance	50 Ohms
polarisation	RHCP
voltage supply	2,7 V - 5,5 V
current	15mA - 25mA
power (max.)	125mW
gain (gps)	18dB
cable	Upon Request
connector	Upon Request
size	26 mm x 26 mm x 8,6 mm
working temp.	-40°C to +85°C

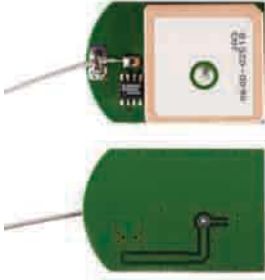
specification



2J405S Module



2J403U - module



specification

application	GPS module antenna
frequency	1575,42 MHz (GPS L1)
vswr	<1,2:1
impedance	50 Ohms
polarization	RHCP
voltage supply	2,8 V - 5,5 V
current	20 mA (typ)
power (max.)	137,5 mW
noise figure	1,15 dB
cable	Upon Request
cable length	Upon Request
connector	Upon Request
housing size	38 mm x 26 mm x 6,4 mm
working temp.	-40°C to +85°C

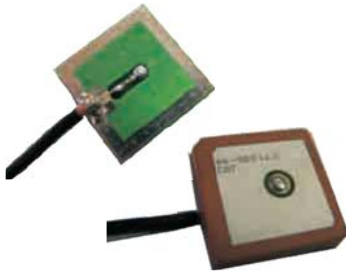
2J407FS - module



specification

application	GPS module antenna
nominal impedance	50 Ohms
frequency	1575,42 MHz
voltage	2,7 V - 5,5 V
noise figure	1,15 dBi
current	15 mA - 25 mA
polarization	RHCP
gain	12dB
cable GPS	cable on request, connector on request
size	26 x 26 x 8,6 mm
working temperature	-40°C to +85°C

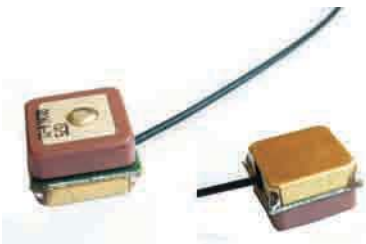
2J409



specification

application	GPS antennae
frequency	1575,42 MHz (GPS L1)
impedance	50 Ohms
polarization	RHCP
gain	2 dBi
supply voltage	passive
cable	upon request
cable length	upon request
connector	upon request
dimensions	25 mm x 25 mm x 8 mm
operating temperature	-40°C to +85°C

2J434MOD



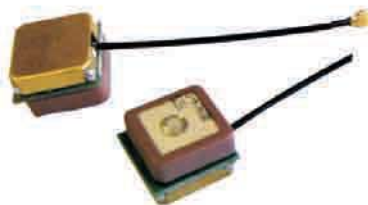
specification

application	GPS antennae
frequency	1575,42 MHz (GPS L1)
impedance	50 Ohms
polarization	RHCP
gain	24 dB - 26 dB
supply voltage	2,7 V - 5,5 V
current	15 mA - 25 mA
cable length	upon request
cable	upon request
connector	upon request
dimensions	14 mm x 14 mm x 8,1 mm
operating temperature	-40°C to +85°C



application	GPS antennae
frequency	1575,42 Mhz (GPS L1)
impedance	50 Ohms
polarization	RHCP
gain	18 dB
noise figure	1,3 dB
supply voltage	2,7 V - 3,3 V
current	4,5 mA (typ)
power (max.)	15 mW
cable	upon request
cable length	upon request
connector	upon request
dimensions	14 mm x 14 mm x 8,6 mm
operating temperature	-40°C to +85°C

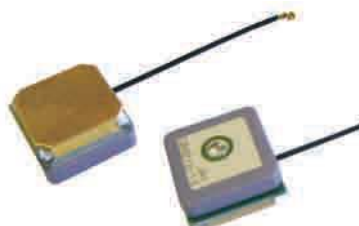
specification



2JM010

application	GPS antennae
frequency	1575,42 MHz (GPS L1)
impedance	50 Ohms
polarization	RHCP
gain	18 dB
noise figure	1,3 dB
supply voltage	2,7 V - 3,3 V
current	4,5 mA (typ)
power (max.)	15 mW
cable	upon request
cable length	upon request
connector	upon request
dimensions	18 mm x 18 mm x 8,6 mm
operating temperature	-40°C to +85°C

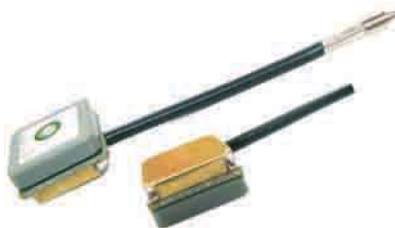
specification



2JM011

application	GPS antennae
frequency	1575,42 MHz (GPS L1)
impedance	50 Ohms
polarization	RHCP
gain	27 dB
noise figure	1,15 dB
supply voltage	2,7 V - 5,5 V
current	15 mA - 25 mA
power (max.)	137,5 mW
cable	upon request
cable length	upon request
connector	upon request
dimensions	18 mm x 18 mm x 9,3 mm
operating temperature	-40°C to +85°C

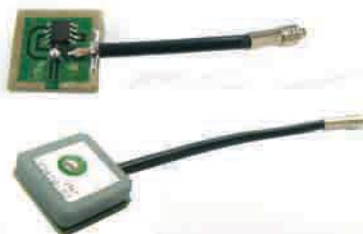
specification



2JM030S

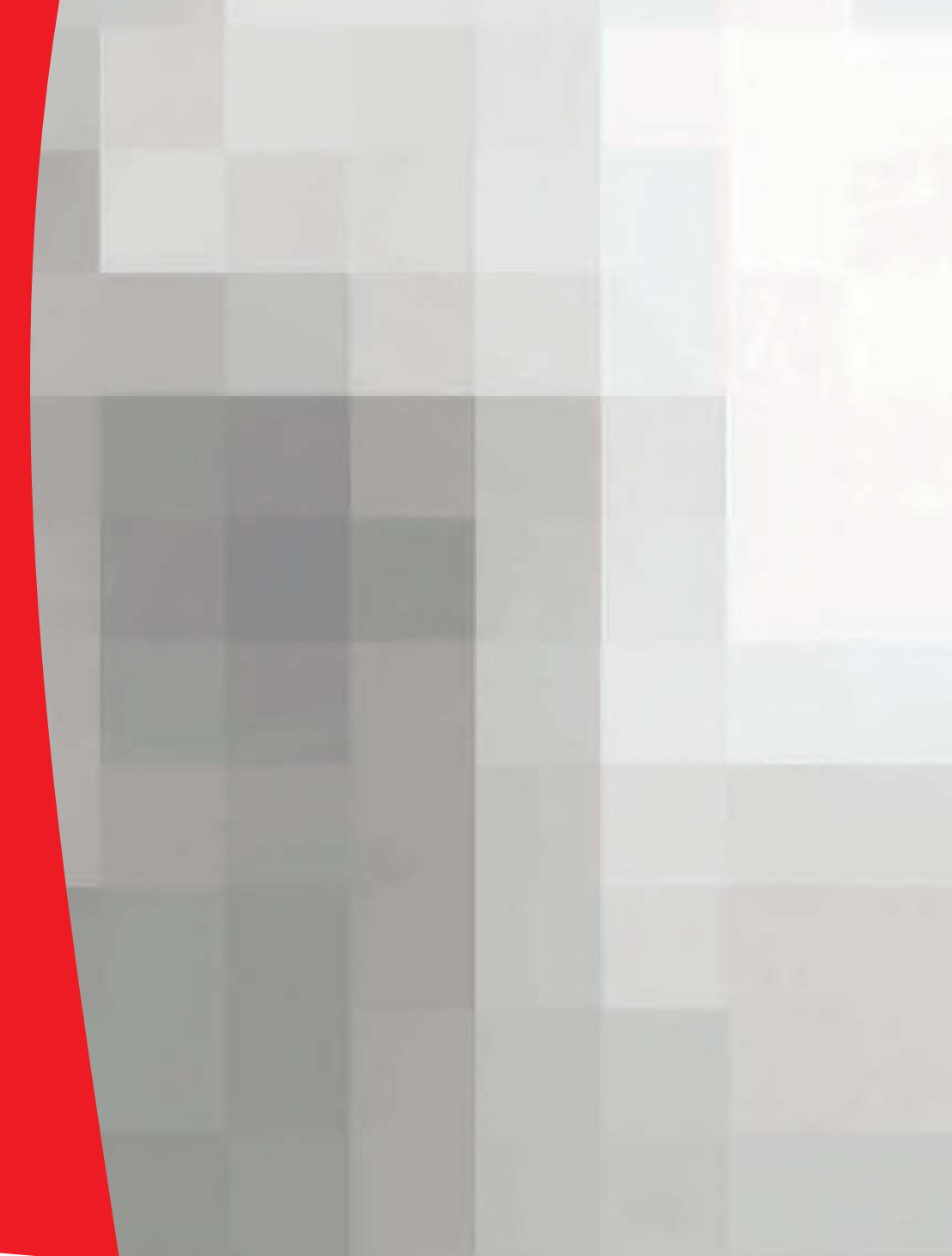
application	GPS antennae
frequency	1575,42 MHz (GPS L1)
impedance	50 Ohms
polarization	RHCP
gain	27 dB
noise figure	1,15 dB
supply voltage	2,7 V - 5,5 V
current	15 mA - 25 mA
power (max.)	137,5 mW
cable	upon request
cable length	upon request
connector	upon request
dimensions	18 mm x 18 mm x 8,05 mm
operating temperature	-40°C to +85°C

specification



2JM030U





frequency	AMPS 824-894 MHz/GSM 900, 1800 MHz DCS 1900 MHz/UMTS 2,1 GHz/ BLUETOOTH 2,4 GHz/5 GHz, 5,8 GHz
vswr	<2:1
impedance	50 Ohms
polarization	HORIZONTAL / VERTICAL
gain (dbi)	0 dBi
power handling	25 W
cable	Upon Request
connector	Upon Request
housing size	42 mm x 16 mm x 1,6 mm
working temp.	-40°C to +85°C

specification



2JMAS01

frequency	AMPS 824 - 894 MHz/GSM 900, 1800 MHz UMTS 2,1 GHz / BLUETOOTH 2,4 GHz
vswr	<2:1
impedance	50 Ohms
polarization	HORIZONTAL
gain (dbi)	0 dBi
power handling	25 W
cable	Upon Request
connector	Upon Request
housing size	75 mm x 25 mm x 1,17 mm
working temp.	-40°C to +85°C

specification



2JIDGACT01

frequency	AMPS 824 - 894 MHz/GSM 900, 1800 MHz/ PCN 1,9 GHz/UMTS 2,1 GHz BLUETOOTH 2,4 GHz
vswr	<2:1
impedance	50 Ohms
polarization	VERTICAL
gain (dbi)	0dBi
power handling	25W
cable	RG174
cable length	2,5m
connector	FME Female
housing size	62 mm x 22 mm x 0,8 mm
working temp.	-40°C to +85 °C

specification



2J550



2JMAS04



specification

frequency	GSM 900, 1800 MHz
vswr	<2:1
impedance	50 Ohms
polarization	VERTICAL
gain (dbi)	0 dBi
power handling	25 W
cable	Upon Request
connector	Upon Request
housing size	42mm x 15mm x 1.5mm
working temp.	-40°C to +85°C

2JMAS01A



specification

frequency	AMPS 824-894MHz / GSM 900, 1800 MHz / PCS 1900 MHz / UMTS 2,1GHz / Bluetooth 2,4GHz / 5GHz, 5.8GHz
nominal impedance	50 Ohms
polarization	VERTICAL
gain	0 dBi
vswr	<2:1
power handling	25 W
cable	upon request
connector	upon request
size	42 x 19 mm x 1,6 mm
working temperature	-40°C to +85°C

2J555 PCB



specification

frequency	Bluetooth/WIFI 2,4-2,5 GHz
nominal impedance	50 Ohms
polarization	VERTICAL
gain	3dBi max.
vswr	<2:1
cable	upon request (min. 60 mm)
connector	upon request
housing size	62 mm x 21 mm x 0,7 mm
working temperature	-40°C to +85°C



frequency	GSM 900MHz / PCN 1800MHz UMTS 2.1GHz /
vswr	<2:1
impedance	50 Ohms
gain	0 dBi
polarization	VERTICAL
power handling	25W
connector	Upon Request
cable	Upon Request
cable length	Upon Request
size	35 mm x 6 mm x 0,65 mm
working temperature	-40°C to +85°C

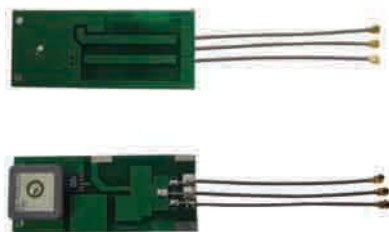
specification



2J0X5

frequency	AMPS/GSM/PCN/ DCS/UMTS/WIFI/GPS
VSWR	<2:1
nominal impedance	50 Ohms
power max.	125 mW
voltage	2,8V to 5,5V
current	15mA-25mA
LNA gain	27dB
polarization	horizontal
cable	3 x RG174
cable legth	upon request
connector	upon request
housing size	62 mm x 26 mm x 1,6-6 mm
working temperature	-40°C to +85°C

specification



2J426 PCB

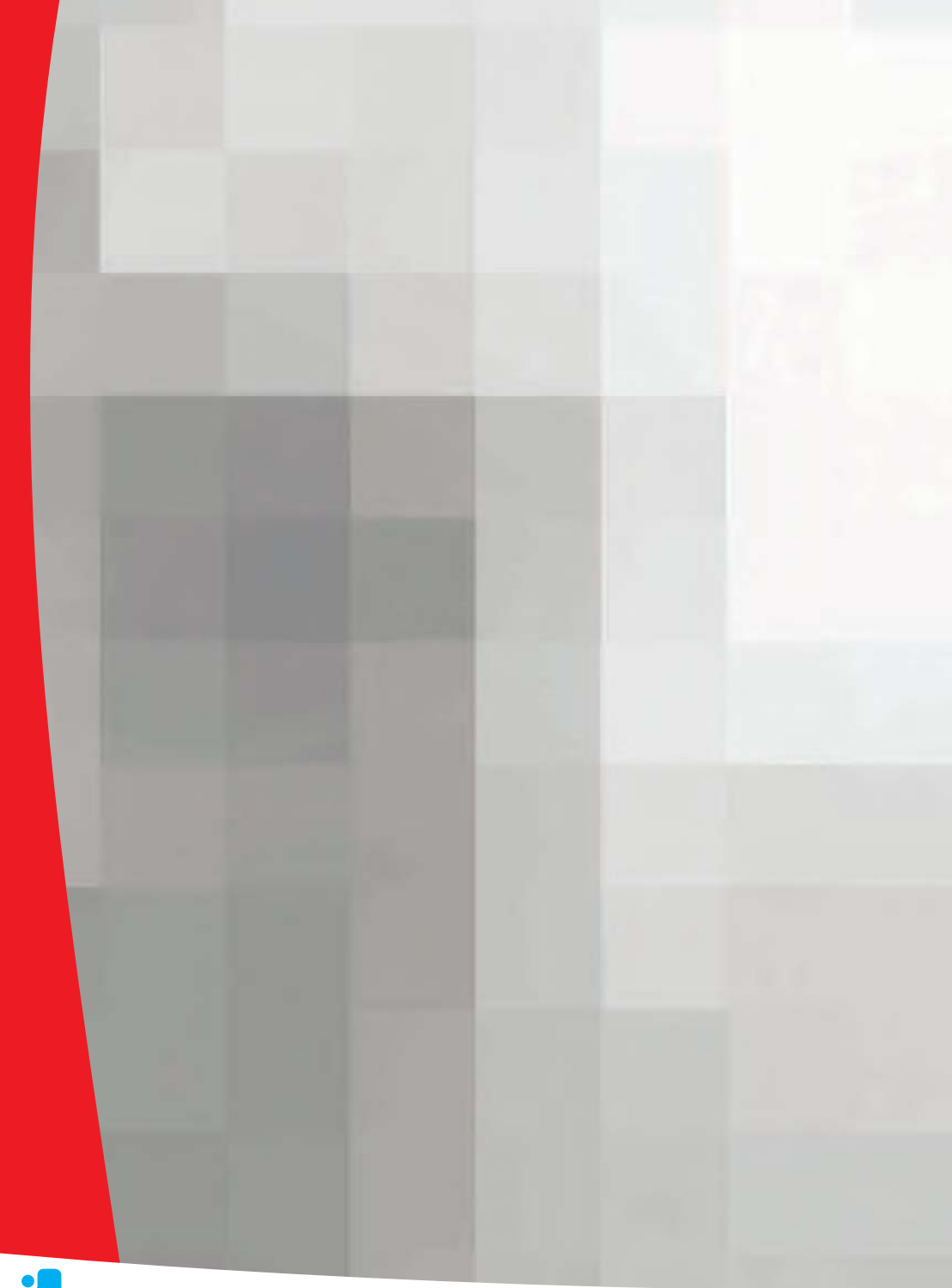
frequency	GSM 900MHz / PCN 1800MHz UMTS 2.1GHz / Bluetooth 2.4GHz
vswr	<2:1
impedance	50 Ohms
gain	0 dBi
polarization	Vertical
power handling	25W
connector	Upon Request
cable	Upon Request
cable length	Upon Request
size	68 mm x 4,6 mm x 1,10 mm
working temperature	-40°C to +85°C

specification



2J620 PCB





mounting	MAST / POLE MOUNTED
application	WIFI
frequency	2.4GHz / 5GHz / 5.8GHz
vswr	<2:1
impedance	50 Ohms
gain (dbi)	12dBi
beamwidth (horizontal)	40 degrees
beamwidth (vertical)	30 degrees
connector	N Type Female
housing size	104 mm x 104 mm x 90 mm
working temp.	-40°C to +85°C

specification



2JWFI12

mounting position	BODY MOUNT
frequency	Bluetooth - Wifi 2.4GHz / 5 - 5.8GHz
impedance	50 Ohms
gain	5 dBi max. at 2,4GHz
VSWR	<2:1
polarization	HORIZONTAL
cable	RG174
housing size	Dia 70mm x 15mm
working temperature	-40°C to +85°C

specification



2J662B

mounting position	BODY MOUNT
frequency	Bluetooth - Wifi 2.4GHz / 5-5.8GHz
impedance	50 Ohms
gain	5 dBi max. at 2,4GHz; 2dBi at 5,8GHz
VSWR	<2:1
polarization	horizontal
cable	RG174
connector	upon request
housing size	Dia 70mm x 15mm
working temperature	-40°C to +85°C

specification



2J672B

2JWD3



specification

frequency	WIFI / BLUETOOTH 2400 MHz
vswr	<2:1
impedance	50 Ohms
polarization	VERTICAL
gain	5 dBi
Swivel	0° to 90°
connector	SMA Male RP
housing size	17,3 mm x 7 - 9.8 mm dia.
working temp.	-40°C to +85°C

2J205GP



specification

mounting position	WALL
nominal impedance	50 Ohms
frequency	AMPS 824-894MHz / GSM / PCN / 1.9GHz USA / UMTS 2,1 GHz Bluetooth 2,4 GHz
polarization	VERTICAL
gain	2.2 dBi
vswr	<2:1
power handling	100W
cable	5m RG58
connector	FME Female
housing size	21,5 mm x 16 mm x 115 mm
working temperature	-40°C to +85°C

2J230GP

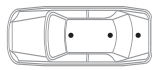


specification

frequency	2400 MHz
vswr	<2:1
impedance	50Ohms
polarization	VERTICAL
gain (dbi)	5 dBi (max.)
power handling	20 W
cable	RG58 or RG174
connector	Upon Request
housing size	138 mm x 16 mm dia.
working temp.	-40°C to +85°C



2J857B



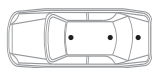
installation



specification

mounting position	BODY MOUNT
frequency	GPS/GLONASS: 1572-1610 MHz / TETRA: 380-500 MHz
impedance	50 Ohms
gain	GPS / GLONASS: 27dB at 5V, TETRA: 2dBi max.
voltage supply	2,7 V - 5,5 V
current	15 mA - 25 mA
VSWR	<2:1 for TETRA <1,2:1 for GPS/GLONASS
polarization	GPS/GLONASS: RHCP; TETRA: VERTICAL
cable	upon request
connector	upon request
housing size	92 mm x 52 mm x 157 mm
working temperature	-40°C to +85°C
OTHER CONNECTORS UPON REQUEST	

2J858B



installation



specification

mounting position	BODY MOUNT
frequency	GPS / Glonass: 1572-1610 MHz / TETRA: 380 - 500 MHz / AMPS / GSM 900 / 1900 / 2100 / 2400 MHz
impedance	50 Ohms
gain	GPS/Glonass: 27 dBi at 5 V, GSM: 3dBi max., TETRA: 2dBi max.
voltage supply	2,7 V - 5,5 V
current	15 mA - 25 mA
VSWR	<2:1 for GSM/TETRA <1,2:1 in GPS/Glonass
polarization	GPS/Glonass: RHCP; GSM/TETRA: VERTICAL
connectors	upon request
cable	3 x RG174
housing size	max. 92 mm x 52 mm x 157 mm
working temperature	-40°C to +85°C
OTHER CONNECTORS UPON REQUEST	

2J615B



specification

mounting position	BODY MOUNT
mounting hole	dia. 10,5mm
nominal impedance	50 Ohms
VSWR	<2:1
power handling	50W
voltage supply	2,7 V to 5,5 V
current consumption	15 - 25 mA
power consumption	125 mW
frequency	380MHz - 500MHz GPS 1575.42 MHz
polarization	TETRA: HORIZONTAL, GPS: RHCP
gain	TETRA : 0 dBi GPS : 28dB at 5V, 26dB at 3V
cable	upon request
connector	upon request
housing size	75 mm x 80 mm
working temperature	-40°C to +85°C

mounting position	WALL
nominal impedance	50 Ohms
VSWR	<2:1
power handling	20W
frequency	380MHz - 500MHz
polarization	VERTICAL
gain	2,14 dBi (max.)
cable	5 m, RG58
connector	Upon Request
housing size	285 mm x 16,5 mm x 155 mm
working temp.	-40°C to +85°C

OTHER CONNECTOR UPON REQUEST

specification



2J340M

application	WALL MOUNTED DIPOLE
frequency	380MHz- 500MHz alternative 240MHz-2400MHz
bandwidth	120MHz+/-20MHz
nominal impedance	50 Ohms
polarization	HORIZONTAL/VERTICAL
vswr	<2:1
power handling	50 W
gain (dBi)	2,14 dBi
connector	upon request
cable	RG174 max. 10m
housing size	29,2 mm x 30 mm x 14 mm
working temperature	-40°C to +85°C

specification



2JD03

mounting position	BODY MOUNT
nominal impedance	50 Ohms
frequency	TETRA, 380-500 MHz
polarization	VERTICAL
gain	2,2 dBi
vswr	<2:1
power handling	100W
cable	4.25m RG58
connector	FME Female
housing size	175 mm x 33 mm
working temperature	-40°C to +85°C

specification



instalation

2J130B



2J330M



specification

mounting position	MAGNETIC
nominal impedance	50 Ohms
frequency	TETRA 380MHz to 500MHz
polarization	VERTICAL
gain	5 dBi
vswr	<2:1
power handling	30W
cable	2.5m RG174
connector	FME Female
housing size	410 mm x 31 mm
working temperature	-40°C to +85°C

2J340M



specification

nominal impedance	50 Ohms
frequency	TETRA 380MHz-500MHz/WIFI 2,4GHz
polarization	VERTICAL
gain	TETRA: 2 dBi / WIFI: 5 dBi
vswr	<2/1
power handling	25W
cable	2.5m RG174
connector	FME Female
housing size	165 mm x 31 mm
working temperature	-40°C to +85°C

2J500L



specification

frequency	TETRA 380MHz - 500MHz/ AMPS 824-894 MHz/GSM 900/1800/ PCN 1900 MHz/UMTS 2,1 GHz/ BLUETOOTH 2.4 GHz /
impedance	50 Ohms
mounting	ON GLASS
polarization	VERTICAL
gain	2.2dBi
VSWR	<2:1
power handling	25W
cable	RG174
cable length	2.5m
connector	FME Female
housing size	126.5 mm x 22 mm x 5-7 mm
operating temperature	-40°C to +85°C



frequency	150MHz - 240MHz / 440MHz - 870MHz
vswr	<2:1
impedance	75 Ohms
polarization	VERTICAL
gain (dbi)	150MHz - 240MHz=12 dB 440MHz - 870MHz = 15 dB
voltage supply	5V - 12V (5 V Typical)
current	25mA at 5V
power (max.)	300mW
cable	RG174
cable length	2.5 m
connector	upon request
housing size	111.5 mm x 59 mm x 5,5 - 11,15 mm
operating temp.	-40°C to +85°C

OTHER CONNECTOR UPON REQUEST

specification



2JDVB101

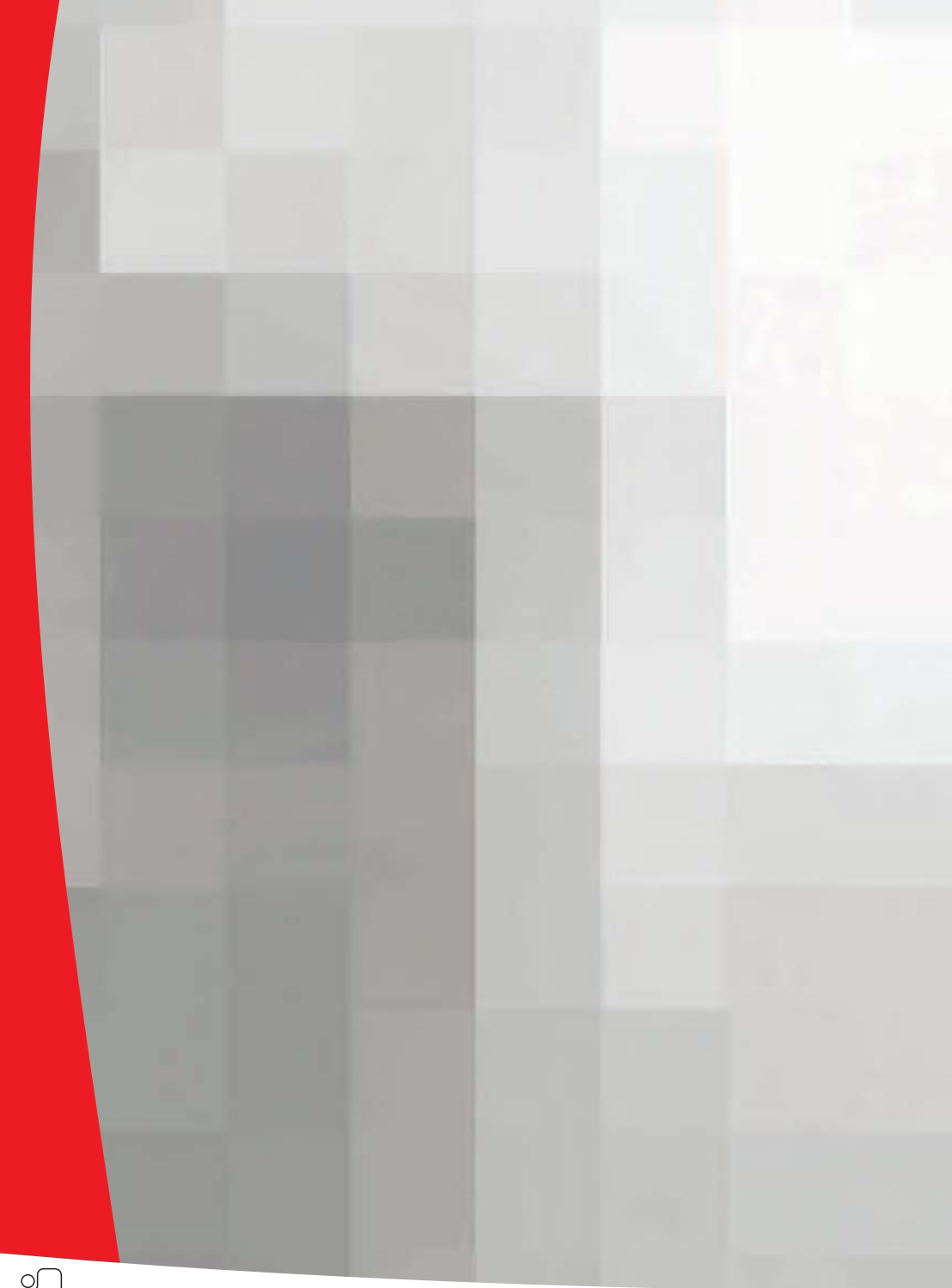
mounting	ON GLASS
application	DVBT / DAB
frequency	170-240 MHz / 440-870 MHz
channels	5-12, 21-69
impedance	75 Ohms
polarization	A- HORIZONTAL / B-VERTICAL
vswr	<2:1
LNA Gain	18 dB +/-2 dB
gain (dbi)	12dBi (DAB); 15dBi (DVBT)
voltage supply	3.3 V - 18V
Current Consumption	<20mA
Physical Dimensions	140 mm x 26-36 mm x 1,8-5,3 mm
LED indicator	green
connector	upon request
operating temp.	-40°C to +85°C

OTHER CONNECTOR UPON REQUEST

specification



2JDVB102



mounting	WALL
application	GSM
frequency	AMPS/GSM 900/PCN 1800/DCS 1900/ UMTS 2100 / BLUETOOTH 2400 MHz
vswr	<2:1
impedance	50 Ohms
polarization	VERTICAL
gain (dbi)	2.2dBi (max.)
power handling	100W
cable	RG58
cable length	5 m
connector	FME Female
housing size	285 mm x 16,5 mm x 155 mm
operating temp.	-40°C to +85°C
OTHER CONNECTOR UPON REQUEST	

specification



2J200GP

mounting	WALL
frequency	AMPS 824-894MHz/GSM /PCN/1,9 GHz USA/UMTS 2,1GHz/BLUETOOTH 2,4GHz
vswr	<2:1
impedance	50 Ohms
polarization	VERTICAL
gain (dbi)	2.2 dBi (max.)
power handling	100W
cable	RG58
cable length	5 m
connector	upon request
housing size	285 mm x 16,5 mm x 155 mm
operating temp.	-40°C to +85°C
OTHER CONNECTORS UPON REQUEST	

specification



2J200GPW

mounting	WALL
frequency	AMPS 824-894MHz/GSM/PCN/1,9 GHz USA/UMTS 2,1GHz/ BLUETOOTH 2,4GHz
vswr	<2:1
impedance	50 Ohms
polarization	VERTICAL
gain (dbi)	2.2dBi (max.)
power handling	100W
cable	RG58
cable length	5 m
connector	upon request
housing size	21,5 mm x 16 mm x 115 mm
operating temp.	-40°C to +85°C
OTHER CONNECTORS UPON REQUEST	

specification



2J205GP

2JDO2



specification

application	WALL MOUNTED DIPOLE
frequency	174 MHz
	alternative 88 MHz to 350 MHz
bandwidth	40MHz+/-10MHz
nominal impedance	50 Ohms
polarization	HORIZONTAL/VERTICAL
vswr	<2:1
power handling	50W
gain (dBi)	2,14dBi
connector	upon request
cable	RG174 max.10 m
housing size	800 mm x 30 mm x 13 mm
working temperature	-40°C to +85°C

OTHER CONNECTORS UPON REQUEST

2JDO3



specification

application	wall mounted dipole
frequency	380MHz- 500MHz
	alternative 240MHz-2400MHz
bandwidth	120MHz+/-20MHz
nominal impedance	50 Ohms
polarization	VERTICAL/HORIZONTAL
vswr	<2:1
power handling	50W
gain (dBi)	2,14dBi
connector	upon request
cable	Rg174 max. 10m
housing size	292 mm max. x 30 mm x 14 mm
working temperature	-40°C to +85°C

OTHER CONNECTORS UPON REQUEST



application	Base-Station Yagi
frequency	433 - 470 MHz
polarization	HORIZONTAL
impedance	50 Ohms
VSWR	<2:1
gain	6 dBi
F/B Ratio	10 dB
beamwidth (H)	50 degrees
beamwidth (E)	50 degrees
max power	150W
boom length	0.997m
working temp.	-40°C to +85°C

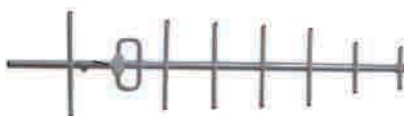
specification



2JYAGI433-5

application	Base-Station Yagi
frequency	433 - 470 MHz
polarization	HORIZONTAL
impedance	50 Ohms
VSWR	<2:1
gain	12dBi (approx)
F/B Ratio	18dB
beamwidth (H)	50 degrees
beamwidth (E)	40 degrees
max power	150W
boom length	1.45m
working temp.	-40°C to +85°C

specification



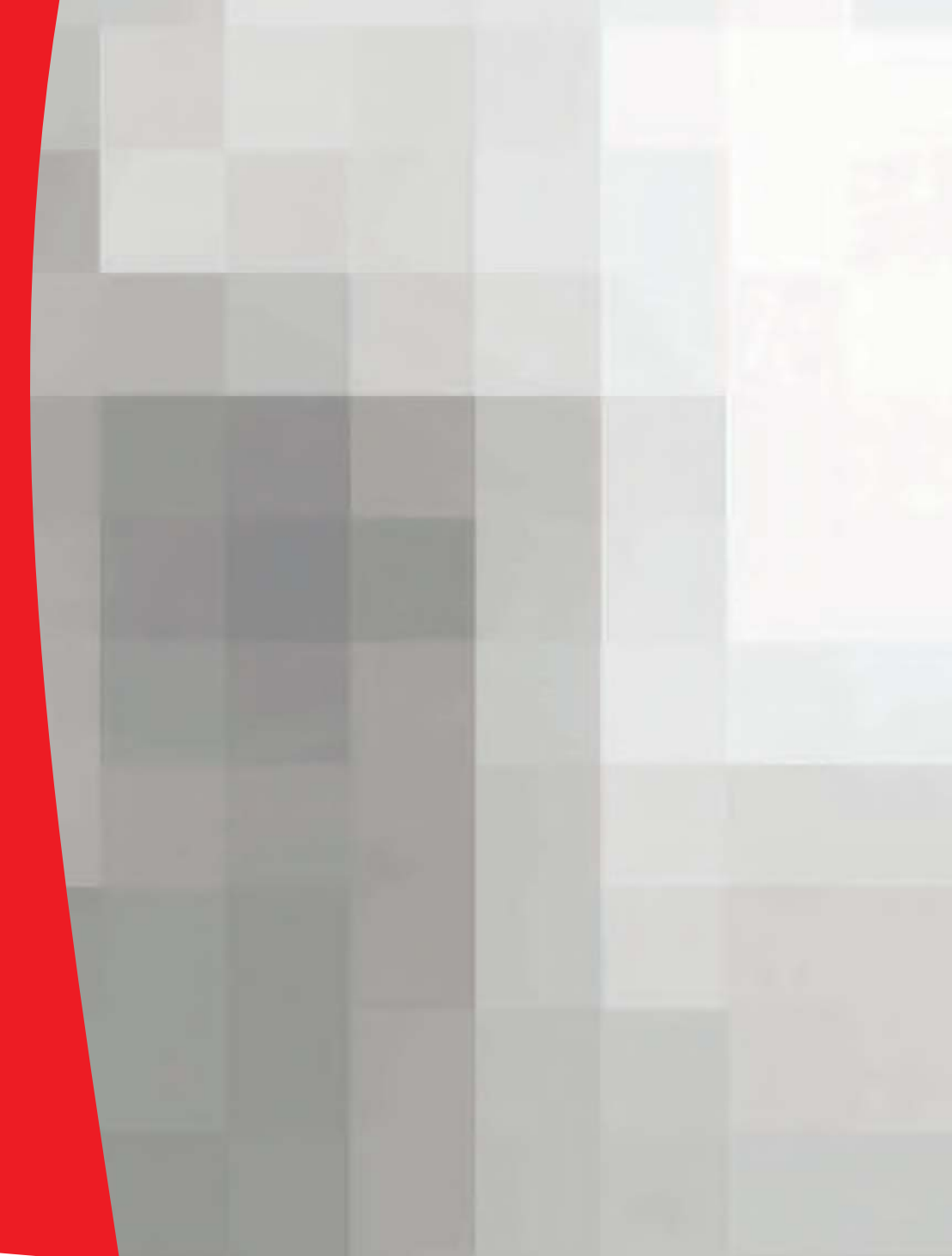
2JYAGI433-8

application	Base-Station Yagi
frequency	900MHz/1800MHz
polarization	HORIZONTAL
impedance	50 Ohms
VSWR	<2:1
gain	9 dBi
F/B Ratio	16 dB
beamwidth (H)	65 degrees
beamwidth (V)	50 degrees
max power	150W
boom length	0.75 m
working temp.	-40°C to +85°C

specification



2JYAGI900-6



connector description	ISO male
material	plastic, nickel
impedance	50 Ohm
finish	-

specification



C98

connector description	DIN male
material	nickel
impedance	50 Ohm
finish	nickel

specification



C99

connector description	GT5 Male, light grey
material	plastic, nickel
impedance	50 Ohm
finish	-

specification



C100

connector description	Fakra C type (Blue 5005) male for RG174
material	plastic, brass
impedance	50 Ohms

specification



C95

connector description	Fakra D type (Bordeaux 4004) female for RG174
material	plastic, brass
impedance	50 Ohms

specification



C125

C90



specification

connector description	McCard male Right Angle RG174
material	brass
impedance	50 Ohms

C44



specification

connector description	MMCX male right angle RG174
material	brass
impedance	50 Ohms

C103



specification

connector description	MS 151
material	BRASS
impedance	50 ohm
finish	nickel, gold

C05



specification

connector description	MMCX (m)
material	BRASS
impedance	50 ohm
finish	nickel, gold

C39



specification

connector description	FME male jack bulkhead
material	BRASS
impedance	50 ohm
finish	nickel



reference	Adaptor FME male to UHF male
side a	FME male
side b	UHF male

specification



reference	Adaptor FME male to TNC male
side a	FME male
side b	TNC male

specification



reference	Adaptor FME male to SMA male
side a	FME male
side b	SMA male

specification



reference	Adaptor FME male to N male
side a	N male
side b	FME male

specification





specification

reference	Adaptor FME male to Mini UHF male
side a	Mini UHF male
side b	FME male



specification

reference	Adaptor FME male to FME male
side a	FME male
side b	FME male



specification

reference	Adaptor FME male to BNC male
side a	BNC male
side b	FME male



specification

reference	Adaptor FME male right angle to Mini UHF male
side a	FME male
side b	Mini UHF male

alternatives available upon request

side a	Fakra D type (Bordeaux 4004) female for RG174
side b	FME Female for RG174
cable	RG174
	alternatives available on request

specification



side a	FME Female for RG58
side b	FME Male for RG58
cable	RG58
	alternatives available on request

specification



side a	MMS Male Right Angle for RG316
side b	MCX Female bulkhead for RG316
cable	RG316
	alternatives available on request

specification



side a	MMS Male Right angle for RG178
side b	SMA Female bulkhead for RG178
cable	RG178
	alternatives available on request

specification





specification

side a	H.FL
side b	MCX Female bulkhead
cable	Microcoax 1.32 mm
alternatives available on request	



specification

side a	GSC
side b	SMA female bulkhead
cable	Microcoax 0.81mm
alternatives available on request	



specification

side a	UFL
side b	FME male bulkhead
cable	Microcoax 1.13
alternatives available on request	