

Panel for DAB in L Band

**65° Half-power Beam Width 770 732, 770 733,
770 793, 770 794, 770 795**

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SITEL Caponago Tel.02 / 95.74.36.09

Type No.	770 732	770 733	770 793	770 794	770 795
Connector position	Bottom or top				
Input	7-16 female connector				
Frequency range	1452 – 1492 MHz				
VSWR	< 1.3	< 1.25	< 1.25	< 1.25	< 1.25
Gain (ref. $\lambda/2$ -dipole)	8 dB	10.5 dB	13.5 dB	15 dB	16 dB
Impedance	50 Ω				
Polarization	Vertical				
Half-power beam width	65°				
Horizontal plane	55°	27°	13°	9°	6.5°
Vertical plane					
Max. power	200 Watt (at 50 °C ambient temperature)				
Width	155 mm				
Depth	49 mm				
Height	210 mm	405 mm	795 mm	1185 mm	1575 mm
Weight	1.5 kg	2 kg	3 kg	4.5 kg	5.5 kg
Wind load (at 160 km/h)					
Frontal:	40 N	80 N	165 N	250 N	342 N
Lateral:	17 N	34 N	74 N	114 N	159 N
Rearside:	51 N	103 N	205 N	319 N	433 N
Max. wind velocity	200 km/h				

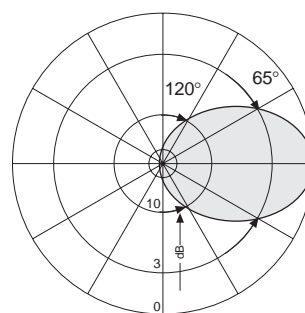


Material:
Reflector screen and radiator: Copper.
Radome: Fiberglass, colour: Grey.
All screws and nuts: Stainless steel.

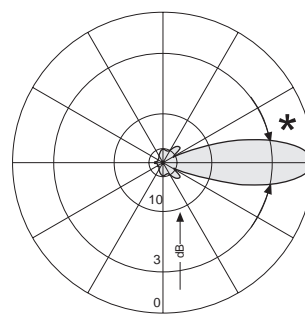
Mounting:
Walls: Using two mounting plates already attached to the antenna.
Masts: Using two clamps suitable for the mast diameter (order separately).

Ice protection:
Since the radiating system is protected by the radome and due to its very sturdy construction, the antenna remains operational even under icy conditions.

Grounding:
The metal parts of the antenna, including the mounting kit, are DC grounded.
The inner conductor is also DC grounded.



Horizontal Pattern



Vertical
Half-power beam width:
* see table above

Accessories (order separately)

Type No.	Description	Remarks	Units per antenna
734 360	2 clamps	34 – 60 mm diameter	1
734 361	2 clamps	60 – 80 mm diameter	1
734 362	2 clamps	80 – 100 mm diameter	1
734 363	2 clamps	100 – 120 mm diameter	1
734 364	2 clamps	120 – 140 mm diameter	1
734 365	2 clamps	45 – 125 mm diameter	1

Panel for DAB in L Band

90° Half-power Beam Width

770 652

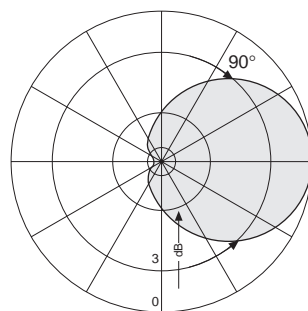
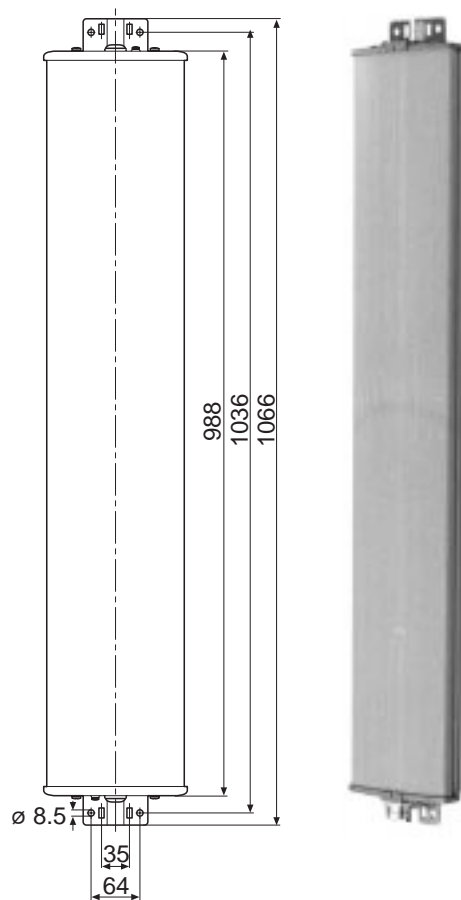
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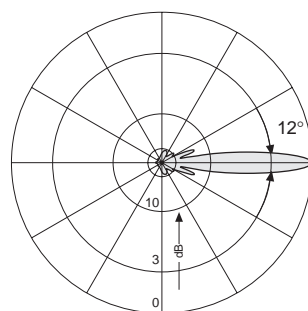
SITEL Caponago Tel.02 / 95.74.36.09

Type No.	770 652
Connector position	Bottom or top
Input	7-16 female connector
Frequency range	1452 – 1492 MHz
Gain (ref. $\lambda/2$ -dipole)	12.5 dB
VSWR	< 1.25
Impedance	50 Ω
Polarization	Vertical
Half-power beam width	Horizontal: 90° / Vertical: 12°
Max. power	500 Watt (at 50 °C ambient temperature)
Weight	3.7 kg
Windload (at 160 km/h)	Frontal: 205 N Lateral: 91 N Rearside: 262 N
Max. wind velocity	200 km/h
Packing size	1087 x 172 x 259 mm
Height/width/depth	988 / 155 / 49 mm

Material:	Reflector screen and radiator: Copper. Radome: Fiberglass, colour: Grey. All screws and nuts: Stainless steel.
Mounting:	Walls: Using two mounting plates already attached to the antenna. Masts: Using two clamps suitable for the mast diameter (order separately).
Ice protection:	Since the radiating system is protected by the radome and due to its very sturdy construction, the antenna remains operational even under icy conditions.
Grounding:	The metal parts of the antenna, including the mounting kit, are DC grounded. The inner conductor is also DC grounded.



Horizontal Pattern



Vertical Pattern

Accessories (order separately)

Type No.	Description	Remarks	Units per antenna
734 360	2 clamps	34 – 60 mm diameter	1
734 361	2 clamps	60 – 80 mm diameter	1
734 362	2 clamps	80 – 100 mm diameter	1
734 363	2 clamps	100 – 120 mm diameter	1
734 364	2 clamps	120 – 140 mm diameter	1
734 365	2 clamps	45 – 125 mm diameter	1

Panel for DAB in L Band

90° Half-power Beam Width

770 947

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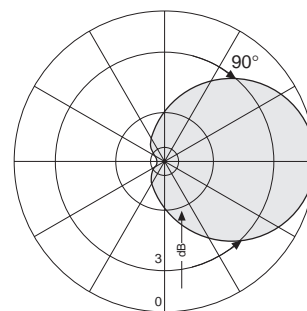
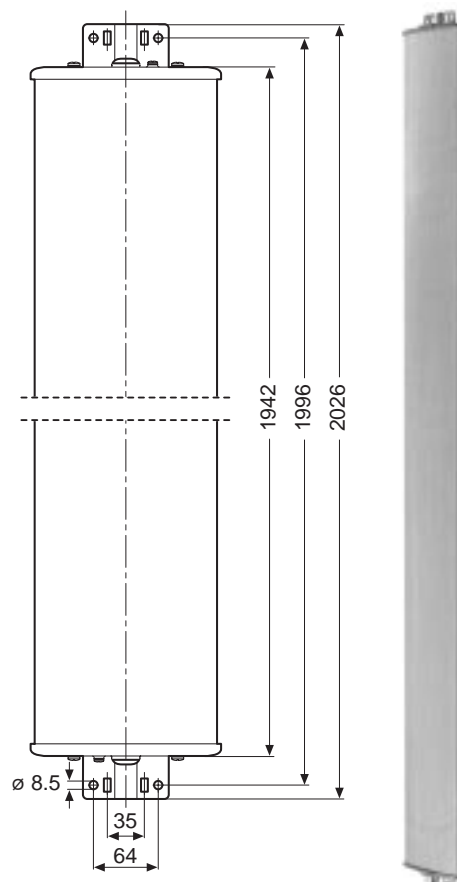
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Type No.	770 947
Connector position	Bottom
Input	7-16 female connector
Frequency range	1452 – 1492 MHz
VSWR	< 1.25
Gain (ref. $\lambda/2$ -dipole)	15.5 dB
Impedance	50 Ω
Polarization	Vertical
Half-power beam width	Horizontal: 90°/ Vertical: 5.5° 1° electr. downtilt
Max. power	500 Watt (at 50 °C ambient temperature)
Weight	6.9 kg
Windload (at 160 km/h)	Frontal: 433 N Lateral: 205 N Rearside: 547 N
Max. wind velocity	200 km/h
Packing size	2044 x 172 x 72 mm
Height/width/depth	1942 / 155 / 49 mm

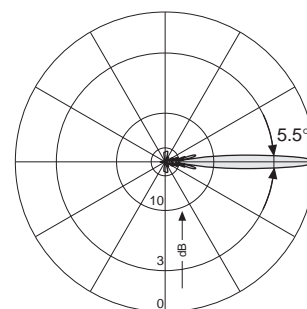
Material:	Reflector screen and radiator: Copper. Radome: Fiberglass, colour: Grey. All screws and nuts: Stainless steel.
Mounting:	Walls: Using two mounting plates already attached to the antenna. Masts: Using two clamps suitable for the mast diameter (order separately).
Ice protection:	Since the radiating system is protected by the radome and due to its very sturdy construction, the antenna remains operational even under icy conditions.
Grounding:	The metal parts of the antenna, including the mounting kit, are DC grounded. The inner conductor is also DC grounded.

Accessories (order separately)

Type No.	Description	Remarks	Units per antenna
734 360	2 clamps	34 – 60 mm diameter	1
734 361	2 clamps	60 – 80 mm diameter	1
734 362	2 clamps	80 – 100 mm diameter	1
734 363	2 clamps	100 – 120 mm diameter	1
734 364	2 clamps	120 – 140 mm diameter	1
734 365	2 clamps	45 – 125 mm diameter	1



Horizontal Pattern



Vertical Pattern
1° electr. downtilt

Panel for DAB in L Band

160° Half-power Beam Width

770 948

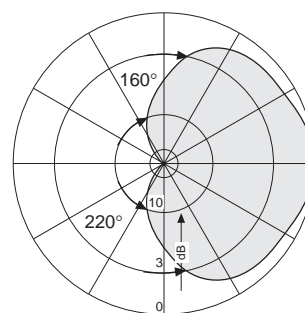
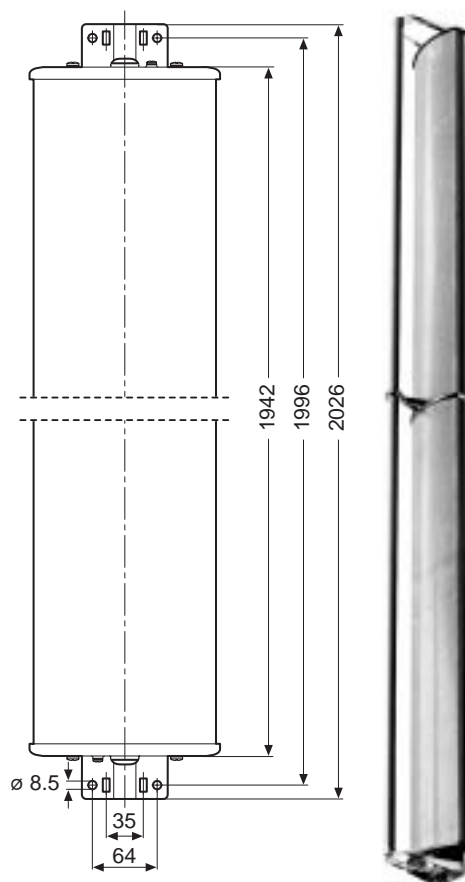
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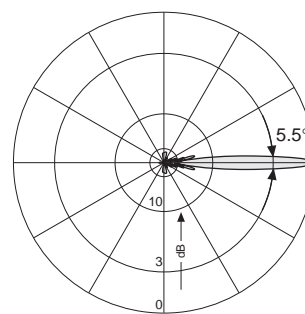
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Type No.	770 948
Connector position	Bottom
Input	7-16 female connector
Frequency range	1452 – 1492 MHz
Gain (ref. $\lambda/2$ -dipole)	14 dB
VSWR	< 1.25
Impedance	50 Ω
Polarization	Vertical
Half-power beam width	Horizontal: 160° / Vertical: 5.5° 1° electr. downtilt
Max. power	500 Watt (at 50 °C ambient temperature)
Weight	7.3 kg
Windload (at 160 km/h)	Frontal: 433 N Lateral: 262 N Rearside: 547 N
Max. wind velocity	200 km/h
Packing size	2047 x 172 x 259 mm
Height/width/depth	1942 / 155 / max. 168 mm

Material:	Reflector screen and radiator: Copper. Radome: Fiberglass, colour: Grey. All screws and nuts: Stainless steel.
Mounting:	Walls: Using two mounting plates already attached to the antenna. Masts: Using two clamps suitable for the mast diameter (order separately).
Ice protection:	Since the radiating system is protected by the radome and due to its very sturdy construction, the antenna remains operational even under icy conditions.
Grounding:	The metal parts of the antenna, including the mounting kit, are DC grounded. The inner conductor is also DC grounded.



Horizontal Pattern



Vertical Pattern
1° electr. downtilt

Accessories (order separately)

Type No.	Description	Remarks	Units per antenna
734 360	2 clamps	34 – 60 mm diameter	1
734 361	2 clamps	60 – 80 mm diameter	1
734 362	2 clamps	80 – 100 mm diameter	1
734 363	2 clamps	100 – 120 mm diameter	1
734 364	2 clamps	120 – 140 mm diameter	1
734 365	2 clamps	45 – 125 mm diameter	1

Panel for DAB in L Band

160° Half-power Beam Width

770 653

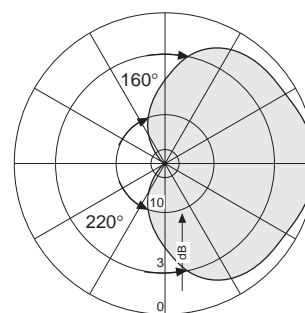
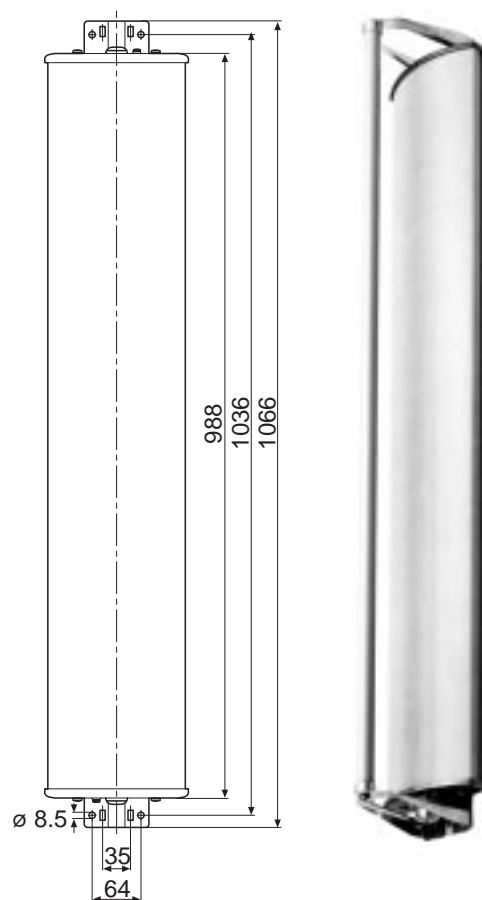
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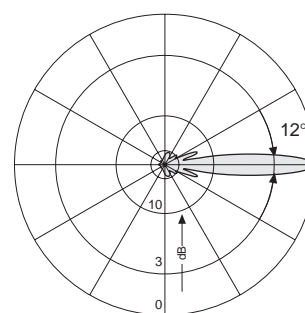
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Type No.	770 653
Connector position	Bottom or top
Input	7-16 female connector
Frequency range	1452 – 1492 MHz
Gain (ref. $\lambda/2$ -dipole)	11 dB
VSWR	< 1.25
Impedance	50 Ω
Polarization	Vertical
Half-power beam width	Horizontal: 160°/ Vertical: 12°
Max. power	500 Watt (at 50 °C ambient temperature)
Weight	4 kg
Windload (at 160 km/h)	Frontal: 205 N Lateral: 125 N Rearside: 262 N
Max. wind velocity	200 km/h
Packing size	1087 x 172 x 259 mm
Height/width/depth	988 / 155 / max. 168 mm

Material:	Reflector screen and radiator: Copper. Radome: Fiberglass, colour: Grey. All screws and nuts: Stainless steel.
Mounting:	Walls: Using two mounting plates already attached to the antenna. Masts: Using two clamps suitable for the mast diameter (order separately).
Ice protection:	Since the radiating system is protected by the radome and due to its very sturdy construction, the antenna remains operational even under icy conditions.
Grounding:	The metal parts of the antenna, including the mounting kit, are DC grounded. The inner conductor is also DC grounded.



Horizontal Pattern



Vertical Pattern

Accessories (order separately)

Type No.	Description	Remarks	Units per antenna
734 360	2 clamps	34 – 60 mm diameter	1
734 361	2 clamps	60 – 80 mm diameter	1
734 362	2 clamps	80 – 100 mm diameter	1
734 363	2 clamps	100 – 120 mm diameter	1
734 364	2 clamps	120 – 140 mm diameter	1
734 365	2 clamps	45 – 125 mm diameter	1

Panel for DAB in L Band

180° Half-power Beam Width

772 310

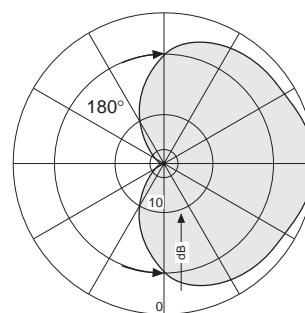
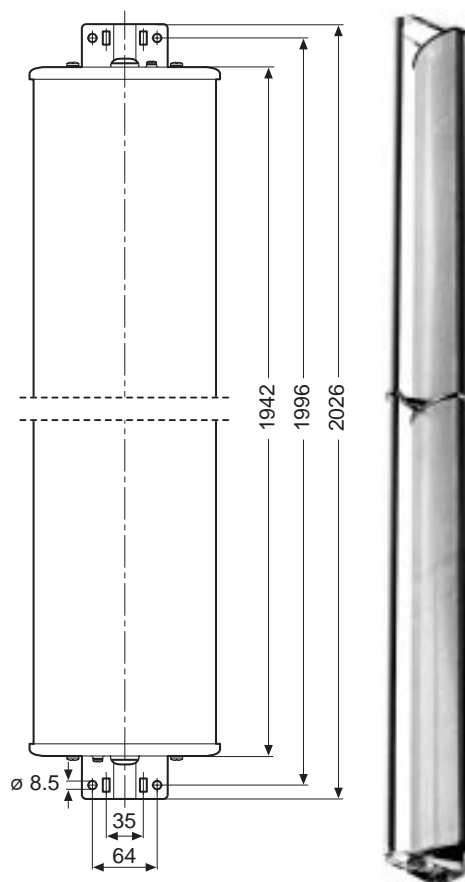
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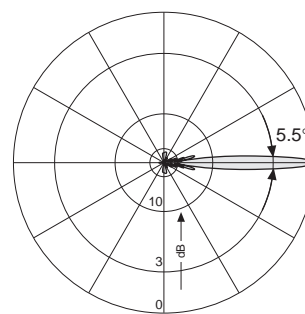
SITEL Caponago Tel.02 / 95.74.36.09

Type No.	772 310
Connector position	Bottom
Input	7-16 female connector
Frequency range	1452 – 1492 MHz
Gain (ref. $\lambda/2$ -dipole)	13.5 dB
VSWR	< 1.25
Impedance	50 Ω
Polarization	Vertical
Half-power beam width	Horizontal: 180° / Vertical: 5.5° 1° electr. downtilt
Max. power	500 Watt (at 50 °C ambient temperature)
Weight	7.3 kg
Windload (at 160 km/h)	Frontal: 433 N Lateral: 262 N Rearside: 547 N
Max. wind velocity	200 km/h
Packing size	2047 x 172 x 259 mm
Height/width/depth	1942 / 155 / max. 168 mm

Material:	Reflector screen and radiator: Copper. Radome: Fiberglass, colour: Grey. All screws and nuts: Stainless steel.
Mounting:	Walls: Using two mounting plates already attached to the antenna. Masts: Using two clamps suitable for the mast diameter (order separately).
Ice protection:	Since the radiating system is protected by the radome and due to its very sturdy construction, the antenna remains operational even under icy conditions.
Grounding:	The metal parts of the antenna, including the mounting kit, are DC grounded. The inner conductor is also DC grounded.



Horizontal Pattern



Vertical Pattern
1° electr. downtilt

Accessories (order separately)

Type No.	Description	Remarks	Units per antenna
734 360	2 clamps	34 – 60 mm diameter	1
734 361	2 clamps	60 – 80 mm diameter	1
734 362	2 clamps	80 – 100 mm diameter	1
734 363	2 clamps	100 – 120 mm diameter	1
734 364	2 clamps	120 – 140 mm diameter	1
734 365	2 clamps	45 – 125 mm diameter	1

Panel for DAB in L Band

180° Half-power Beam Width

771 917

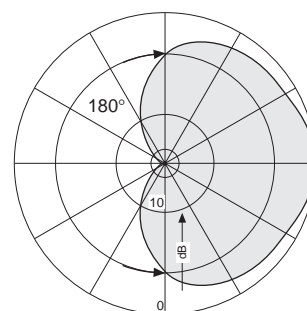
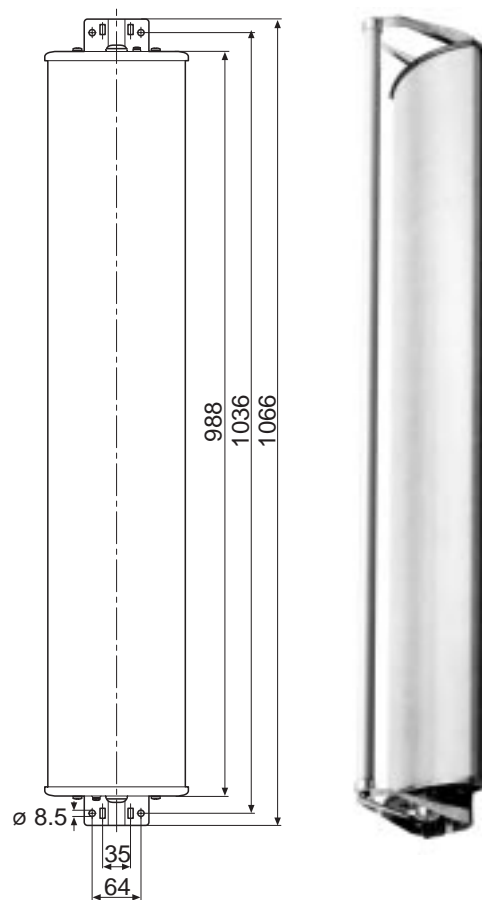
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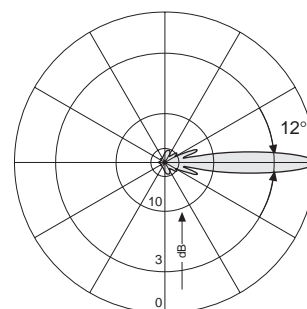
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Type No.	771 917
Connector position	Bottom or top
Input	7-16 female connector
Frequency range	1452 – 1492 MHz
Gain (ref. $\lambda/2$ -dipole)	10.5 dB
VSWR	< 1.25
Impedance	50 Ω
Polarization	Vertical
Half-power beam width	Horizontal: 180°/ Vertical: 12°
Max. power	500 Watt (at 50 °C ambient temperature)
Weight	4 kg
Windload (at 160 km/h)	Frontal: 205 N Lateral: 125 N Rearside: 262 N
Max. wind velocity	200 km/h
Packing size	1087 x 172 x 259 mm
Height/width/depth	988 / 155 / max. 168 mm

Material:	Reflector screen and radiator: Copper. Radome: Fiberglass, colour: Grey. All screws and nuts: Stainless steel.
Mounting:	Walls: Using two mounting plates already attached to the antenna. Masts: Using two clamps suitable for the mast diameter (order separately).
Ice protection:	Since the radiating system is protected by the radome and due to its very sturdy construction, the antenna remains operational even under icy conditions.
Grounding:	The metal parts of the antenna, including the mounting kit, are DC grounded. The inner conductor is also DC grounded.



Horizontal Pattern



Vertical Pattern

Accessories (order separately)

Type No.	Description	Remarks	Units per antenna
734 360	2 clamps	34 – 60 mm diameter	1
734 361	2 clamps	60 – 80 mm diameter	1
734 362	2 clamps	80 – 100 mm diameter	1
734 363	2 clamps	100 – 120 mm diameter	1
734 364	2 clamps	120 – 140 mm diameter	1
734 365	2 clamps	45 – 125 mm diameter	1

Omnidirectional Antenna for DAB in L Band 1452 – 1492 MHz

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770 721, 770 722, 771 870 SITEL Caponago Tel.02 / 95.74.36.09

- Center fed collinear antennas with 7 dB, 10 dB and 11.5 dB gain.

Omni 1470 360° 7dB/10dB/11.5dB

Type No.	770 721	770 722	771 870
Input	7-16 female connector		
Frequency range	1452 – 1492 MHz		
VSWR	< 1.25		
Gain (ref. $\lambda/2$ -dipole)	7 dB	10 dB	11.5 dB
Impedance	50 Ω		
Polarization	Vertical		
Vertical half-power beam width	13°	6.5°	4°
Max. power	200 Watt (at 50 °C ambient temperature)		
Weight	4.5 kg	6.0 kg	8.0 kg
Radome diameter	51 mm		
Wind load (at 160 km/h)	114 N	171 N	239 N
Max. wind velocity	200 km/h		
Packing size	188 x 102 x 1246 mm	188 x 102 x 2216 mm	148 x 112 x 3316 mm
Length	973 mm	1944 mm	2994 mm

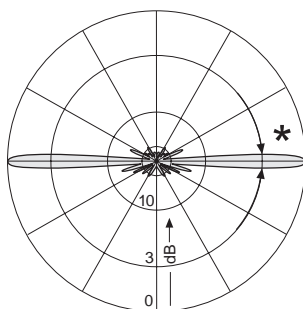
Material: Radiator: Copper and brass.
Radome: Fiberglass, colour: Grey
Antenna base: Aluminum.
Mounting kit, screws and nuts: Stainless steel.

Mounting: The antenna can be attached laterally at the tip of a tubular mast of 50 – 94 mm diameter (connecting cable runs outside the mast).

Grounding: Earthing cross-section of 22 mm² copper between antenna tip and base.



770 721

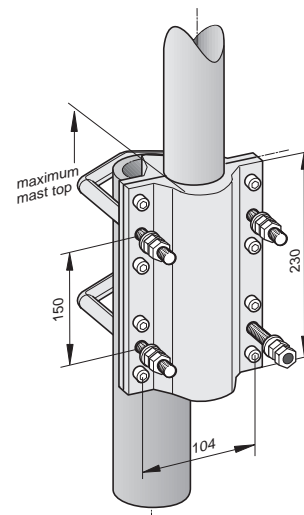


Vertical Pattern at mid-band.

Half-power beam width:

* see table above.

1° electr. downtilt



Omnidirectional Antenna for DAB in L Band

1452 – 1492 MHz

771 038

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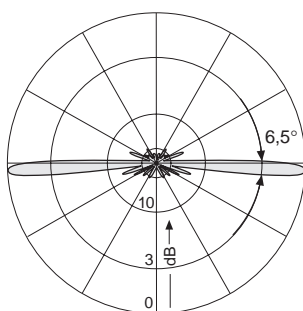
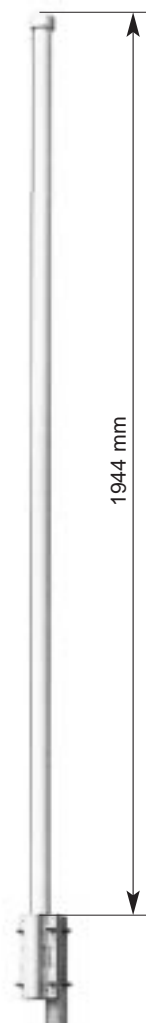
- Center fed collinear antenna with 10 dB gain and 3° downtilt.

Type No.	771 038
Input	7-16 female connector
Frequency range	1452 – 1492 MHz
VSWR	< 1.25
Gain (bez. $\lambda/2$ -dipole)	10 dB
Impedance	50 Ω
Polarization	Vertical
Vertical half-power beam width	6.5°
Max. power	3° electr. downtilt 200 Watt (at 50 °C ambient temperature)
Weight	6.0 kg
Radome diameter	51 mm
Wind load (at 160 km/h)	171 N
Max. wind velocity	200 km/h
Packing size	188 x 102 x 2216 mm
Length	1944 mm

Material: Radiator: Copper and brass.
Radome: Fiberglass, colour: Grey
Antenna base: Aluminum.
Mounting kit, screws and nuts: Stainless steel.

Mounting: The antenna can be attached laterally at the tip of a tubular mast of 50 – 94 mm diameter (connecting cable runs outside the mast).

Grounding: Earthing cross-section of 22 mm² copper between antenna tip and base.



Vertical Pattern at mid-band.
Half-power beam width 6.5°
3° electr. downtilt

