

HIRSCHMANN MOBILITY



AM/FM/ DAB Screw Antenna

RDA 015 24 RD S/series
Pt no.
951-021-...

• Different power option (external or phantom feed)

Subject to alterations

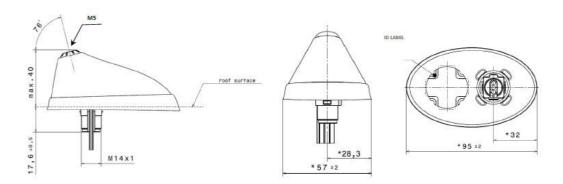
Technical data

Electrical Specification AM/FM				
Frequency range		M 0,15 – 1,71 MHz		
		87 - 108 MHz		
VSWR	Band II (FM)	< 2		
Impedance		50 Ohm		
Gain		5,7 ±2 dB		
		5 ±2 dB		
	Band II (FM)			
$\Delta IM3 - Pout = 110db\mu V$	LF f=(300 ±50) kHz			
	MF f=(1000 ±50) kHz Band II f=(98 ±0,5) MHz			
Noise figure		-10 dBµV		
. 10.00ga. 0		-11 dBµV		
	Band II/FM			
Voltage supply (Ext.power supply for all versions)	min.			
		14 V		
Current consumption		75 mA		
		83 mA 90 mA		
Floatrical Consideration DAD	IIIdX.	90 111A		
Electrical Specification DAB		(T) 0 (0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Frequency range		174 – 240 MHz		
VSWR		≤ 2		
Impedance	B 1111	50 Ohm		
Gain (linear gain, vertical polarization)		21 -3/+2 dB		
$\Delta IM3 - Pout = 110db\mu V$	Band III f=(207±0,5) MHz			
Noise figure		·		
Voltage supply	min.			
(External or phantom acc. to versions)		14 V		
Current consumption		45 mA 55 mA		
		65 mA		
Mechanical	1116074	00.1111		
Dimensions		95 x 57 x 40 mm (+ 200 mm optional rod)		
Materials	Housing			
	Nut	Zamak		
	Optional rod	Santoprene		
Weight		180 g		
Operations temperature range		- 40 + 85° C		
Storage temperature range		- 40 + 85° C		

Housing protection class	IP67
Cable type	RF RG174 / Power fly 0,5mm ²

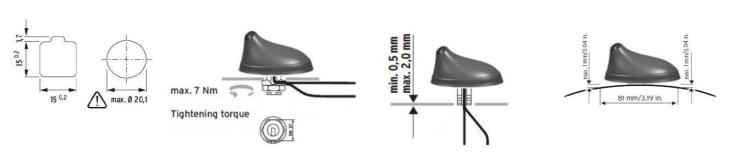
Versions		Cable length	AM/FM	Pw	DAB	Pw
951-021-101	RDA 015 24 RD S FAf FBf 0,3	~ 300 mm	FAf	6,35	FBf	Phantom
951-021-001	RDA 015 24 RD S FAf FBf 0,3 – wo Rod	~ 300 mm	FAf	6,35	FBf	Phantom
825-062-001	Rod AM/FM DAB 200mm M5	na				

Technical drawings



Installation

- Take the necessary electrostatic precautions for a connection of electronic components (Potential ESD < 1 kV)
- Surface must be quite flat (maximum radius 1cm per meter)
- Standard max surface thickness 2 mm (up to 10mm possible on request)
- No metallic (conductive) surface above the antenna
- Connectors are not waterproof, so area below the antenna must be dry
- Drill a hole (diameter 20 +/-0,1mm) (clean with isopropyl alcohol or similar)
- Screw the nut on the grounding plate (6 Nm +-15%)
- No adjunction of any material (silicones, glue, ...)
- Check that the wires respect the appropriate way:
 - Not electrically charged (Potential ESD <1 kV)
 - Not pulled / stressed
 - Bending radius > 25mm
- Not in contact with aggressive part



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