DATA SHEET

SENCITY® Omni-SR Dome Antenna

1399.17.0106

Properties

- Compact Omnidirectional in-carriage antenna for all Wi-Fi 6E bands (2.4 GHz / 5GHz / 6 GHz)
- Rugged design, meets EN 50155 Railway Standard and IP65 rating
- Fire retardant according to EN 45545-2 and NFPA130
- Protection against lightning
- Integrated N female interface



Electrical bands				
	Band 1	**Band 2**	**Band 3**	**Band 4**
Name	Cellular/Wi-Fi	Cellular/Wi-Fi	Cellular/Wi-Fi	Cellular/Wi-Fi
Frequency (MHz)	2400 MHz ... 2500 MHz	2500 MHz ... 2700 MHz	3400 MHz ... 3800 MHz	4900 MHz ... 5925 MHz
Impedance	50 Ω	50 Ω	50 Ω	50 Ω
VSWR	1.8	2	2	1.8
Gain (dBi)	6 dBi	6 dBi	6 dBi	8 dBi
Halfp Beamwidth horizontal	360 °	360 °	360 °	150 °
Ambient Temperature	25 °C	25 °C	25 °C	25 °C
Composite Power max	350 W	350 W	300 W	300 W

	Band 5
Name	Cellular/Wi-Fi
Frequency (MHz)	5925 MHz ... 7125 MHz
Impedance	50 Ω
VSWR	1.9
Gain (dBi)	8 dBi
Halfp Beamwidth horizontal	170 °
Ambient Temperature	25 °C
Composite Power max	300 W

Electrical remarks	
Remarks	Note that all VSWR values are guaranteed without metallic ground plane.

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Ports	
	Port 1
Port name	Cellular/Wi-Fi
Connector	N, jack (female)
Polarization	vertical
DC grounded	Yes

Connections	
Port number	Port 1
Band 1	✓
Band 2	✓
Band 3	✓
Band 4	✓
Band 5	✓

Mechanical data	
Weight	0.3 kg
Dimensions	43 mm x 86 mm (Heigth x Diamter)
Remarks	Grounding Designed acc. to UIC 533, DC-grounded antenna element Corrosion Low corrosion design acc. to MIL-F-14072(E)

Interface and material data	
Radome material	PC (Polycarbonate)
Radome colour	RAL 7035 (light-grey)
Back plate/base plate material	Aluminium

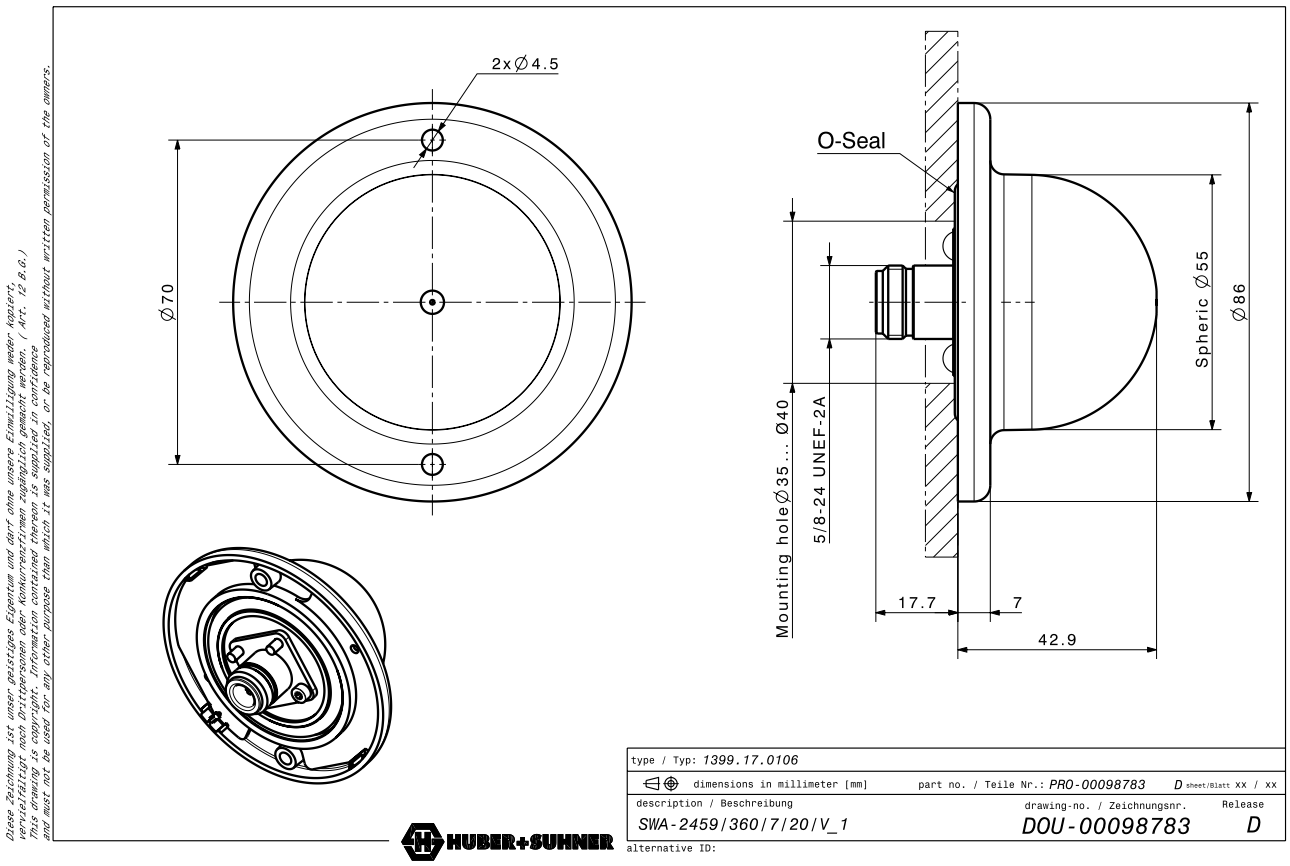
Environmental data	
Operation temperature	-40 °C ... 80 °C
Storage temperature	-40 °C ... 80°C
Transport temperature	-40 °C ... 80°C
Environment (application)	Indoor
Ingress protection (IP Rating)	IP65
Flammability rating	EN 45545-2
Standards	Railway EN 45545 Railway EN 50155 Railway NFPA130

Environmental remarks
Environmental tests EN 50155:2004 Flammability rating: DIN 5510-2, BS 6853, EN 45545-2, NFPA130

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Outline drawing



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