Data Sheet

HUBER+SUHNER

Sencity Special Communication Antenna K863032

Description

Omni-directional Antenna
Frequency Range 380-470 MHz
Vertical Polarization
4 dBi Gain
Various Radiation Patterns depending on distance from the mast edge and mast diameter

Product Configuration

Technical Data

Electrical Data

	Band 1	Band 2
Frequency (MHz)	380 - 400	400 - 470
VSWR	1.5	1.5
Impedance (Ohm)	50	50
Gain (dBi)	4	4
Composite power max (W)	450	450
Ambient temperature (°C)	50	50

Ports

	Port 1
Connector	N, jack (female)
Polarization	vertical
DC grounded	Yes

Connections

	Band 1	Band 2
Port 1	X	X

General Data

VSWR:
400 - 470 MHz: < 1.5
380 - 400 MHz: < 1.5 for Distance A = lambda/4
380 - 400 MHz: < 2.0 for Distance A > lambda/4

Mechanical Data

Dimensions (mm)	314 x 100 x 580 (Heigth x Width x Depth)
Weight (kg)	1.6
Windload	frontal: 40 N at 150 km/h , Wind speed survival: 200 km/h

Packing size (mm): 880x330x100

Environmental Data

Environmental conditions	outdoor
2011/65/EU (RoHS - including 2015/863 and 2017/2102)	compliant
WEEE 2012/19/EU	no special marking needed
REACH 1907/2006/EC	compliant

Sencity Special Communication Antenna K863032

Material:
Radiator: Hot-dip galvanized steel.
Horizontal support pipe: Stainless steel.
Mount: Aluminum.
Tightening band and all screws and nuts: Stainless steel.
Feedpoint radome: Fiberglass.

Attachment:
To tubular masts of 60-320 mm diameter using supplied stainless steel tightening band (20 mm wide, 0.8 mm gauge)

Special features:
The distance from tubular mast to radiator is adjustable from 170-580 mm.

Grounding:
All metal parts of the antenna including the inner conductor and the supplied mount are DC grounded.

Radiation Pattern:
The radiation pattern are shown dependent on mast diameter and distance to the mast. According values given in pattern files.

Material Data

Radome colour	grey
Back plate/base plate colour	grey
Back plate/base plate material	Aluminium

Related Documents

Mounting instruction	DOC-0000866083
Security instruction	DOC-0000278984
Outline drawing	DOU-00397158

Additional Information