

Data Sheet

868 MHz Antennas (HSA-868XXX)

ISM/LoRa 868 MHz antennas

Product	Frequency range	VSWR	Gain	Polarization type	Rated power	Input impedance
HSA-868MS1	868 MHz	≤ 2.0	5 dBi	vertical	100 W	50 Ω
HSA-868PCB	868 MHz	≤ 2.0	4 dBi	vertical	50 W	50 Ω
HSA-868TEB	868 MHz	≤ 2.0	2 dBi	vertical	50 W	50 Ω
HSA-868TEB2	868 MHz	≤ 2.0	2 dBi	vertical	50 W	50 Ω
HSA-868TFF	868 MHz	≤ 2.0	2 dBi	vertical	50 W	50 Ω

Product	Connector	Antenna length	Radiator	Working temperatures	Weight
HSA-868MS1	SMA male	Ø28x299 mm	Cuprum	-40°C~+60°C	57 g
HSA-868PCB	IPEX	Ø9x34 mm	Cuprum	-40°C~+60°C	3 g
HSA-868TEB	SMA male	Ø7.8x51 mm	Cuprum	-40°C~+60°C	6 g
HSA-868TEB2	SMA male	Ø7.8x48 mm	Cuprum	-40°C~+60°C	6 g
HSA-868TFF	SMA male	Ø10x108.5 mm	Cuprum	-40°C~+60°C	12 g

HSA-868MS1

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Electrical specifications:



- Frequency range: 868 MHz
- VSWR: ≤ 2.0
- Gain: 5 dBi
- Polarization type: vertical
- Rated power: 100 W
- Input impedance: 50 Ω

Mechanical specifications:



- Connector: SMA male
- Antenna length: $\varnothing 28 \times 299$ mm
- Radiator: Cuprum
- Working temperatures: $-40^{\circ}\text{C} \sim +60^{\circ}\text{C}$
- Humidity: 5%-95% RH
- Weight: 57 g

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HSA-868PCB

	<p>Electrical specifications:</p> <ul style="list-style-type: none">• Frequency range: 868 MHz• VSWR: ≤ 2.0• Gain: 4 dBi• Polarization type: vertical• Rated power: 50 W• Input impedance: 50 Ω <p>Mechanical specifications:</p> <ul style="list-style-type: none">• Radome materials: PCB• Connector: IPEX• Antenna length: $\varnothing 9 \times 34$ mm• Radiator: Cuprum• Working temperatures: $-40^{\circ}\text{C} \sim +65^{\circ}\text{C}$• Weight: 3 g
	



HSA-868TEB

	<p>Electrical specifications:</p> <ul style="list-style-type: none">• Frequency range: 868 MHz• VSWR: ≤ 2.0• Gain: 2 dBi• Polarization type: vertical• Rated power: 50 W• Input impedance: 50 Ω <p>Mechanical specifications:</p> <ul style="list-style-type: none">• Radome materials: plastic• Connector: SMA male• Antenna length: $\varnothing 7.8 \times 51$ mm• Radiator: Cuprum• Working temperatures: $-40^{\circ}\text{C} \sim +60^{\circ}\text{C}$• Humidity: 5%-95% RH• Weight: 6 g
	

HSA-868TEB2

	Electrical specifications: <ul style="list-style-type: none">• Frequency range: 868 MHz• VSWR: ≤ 2.0• Gain: 2 dBi• Polarization type: vertical• Rated power: 50 W• Input impedance: 50 Ω Mechanical specifications: <ul style="list-style-type: none">• Radome materials: plastic• Connector: SMA male• Antenna length: $\varnothing 7.8 \times 48$ mm• Radiator: Cuprum• Working temperatures: $-40^{\circ}\text{C} \sim +60^{\circ}\text{C}$• Humidity: 5%-95% RH• Weight: 6 g
	

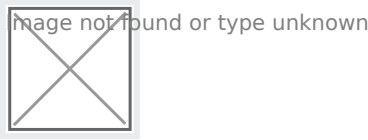
HSA-868TFF

	Electrical specifications: <ul style="list-style-type: none">• Frequency range: 868 MHz• VSWR: ≤ 2.0• Gain: 2 dBi• Polarization type: vertical• Rated power: 50 W• Input impedance: 50 Ω Mechanical specifications: <ul style="list-style-type: none">• Radome materials: plastic• Connector: SMA male• Antenna length: $\varnothing 10 \times 108.5$ mm• Radiator: Cuprum• Working temperatures: $-40^{\circ}\text{C} \sim +60^{\circ}\text{C}$• Humidity: 5%-95% RH• Weight: 12 g
	

Additional notes

Related information and links		
Ordering information	Accessories	Similar products

Products family sample photo



<https://redisage.com>

DISCLAMER NOTES

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

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