

Industrial, Scientific and Medical (ISM) Antennas

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ISM Standalone Antennas combine high RF performance with ease of integration over 433, 868 and 915 MHz bands for advanced industrial, scientific and medical devices

Features and Advantages

433 MHz ISM Flexible Antenna
(Series 204287)

Topside of the poly-flexible antenna
Makes for easy peel-and-stick mounting anywhere within the device chassis

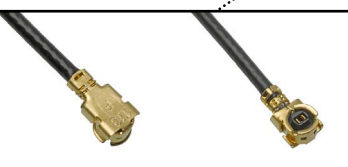
Double-sided adhesive on the antenna reverse
Enables instant application anywhere on the inner wall of the device chassis by just removing its tape liner

6 Micro-coaxial Cable
Length options (50, 100, 150, 200, 250, 300mm)
Extends connectivity for maximum design flexibility

868, 915 MHz Balanced, Dipole ISM Flexible Antenna (Series 206764)

868, 915 MHz ISM Flexible Antenna with MobiliquA* Technology (Series 105262)

Poly-flexible antenna
Enables easy peel-and-stick mounting anywhere within the device casing



UFL-type connector
Secures to the application's device radio

Low profile design
Offers space saving

Cable and connector can be customized
Provides design flexibility

High efficiency (up to 70%)
Provides cost savings

U.F.L-type connector
Secures to the application's device radio



ISM 868/915MHz Ceramic Antenna (Series 208142)

High operating temperature (Up to 125°C)
Enables use in challenging environmental conditions

Low profile design
Offers space saving

*The MobiliquA antenna technology incorporates proprietary bandwidth enhancing

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Владимир (4922)49-43-18
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Екатеринбург (343)384-55-89

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Липецк (4742)52-20-81
Россия +7(495)268-04-70

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Applications

Industrial

Smart homes (security, alarm)
Smart meters
Remote keyless entry systems
Drones

Scientific

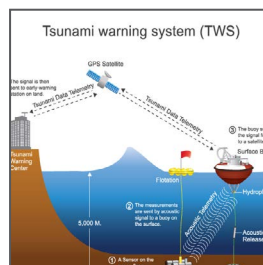
Optical connectivity solutions
Underwater sensor networks

Medical

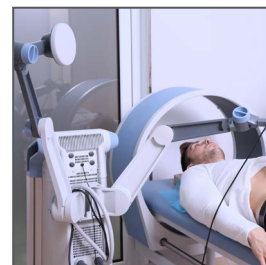
Diathermy therapeutic devices
Microwave ablation machines



Drones



Underwater Sensor Networks



Diathermy Therapeutic Device

Specifications

REFERENCE INFORMATION

Packaging: Tray (105262)
PET Film (204287, 206764, 211140); Bag (208142)
Reference Platform: PC/ABS material block of 2mm thickness (211140, 204287, 206764); PC material block of 2.5mm thickness (105262); PCB material block of 0.80mm thickness (208142)
Designed In: mm
RoHS: Yes
Halogen Free: Yes

ELECTRICAL

RF Power (Watt): 2
Return Loss (dB): Refer to Product Specifications
Average Total Radiation Efficiency(%): Refer to Product Specifications
Peak Gain (dBi): Refer to Product Specifications
Input Impedance (ohms): 50

MECHANICAL

Refer to Product Specifications

PHYSICAL

Housing: FPC
Flammability: UL 94V-0
Plating: Refer to Sales Drawings
Operating Temperature:
-30 to 85°C (204287, 206764)
-40 to 85°C (105262, 211140)
-40 to 125°C (208142)

Ordering Information

Series No.	Frequency Bands (MHz)	Dimensions (mm)
206764	868, 915	87.40 by 12.40
105262	868, 915	79.00 by 10.00
204287	433	90.00 by 40.00
211140	868, 915	38.00 by 10.00 by 0.10
208142	868, 915	9.00 by 3.00 by 0.63

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