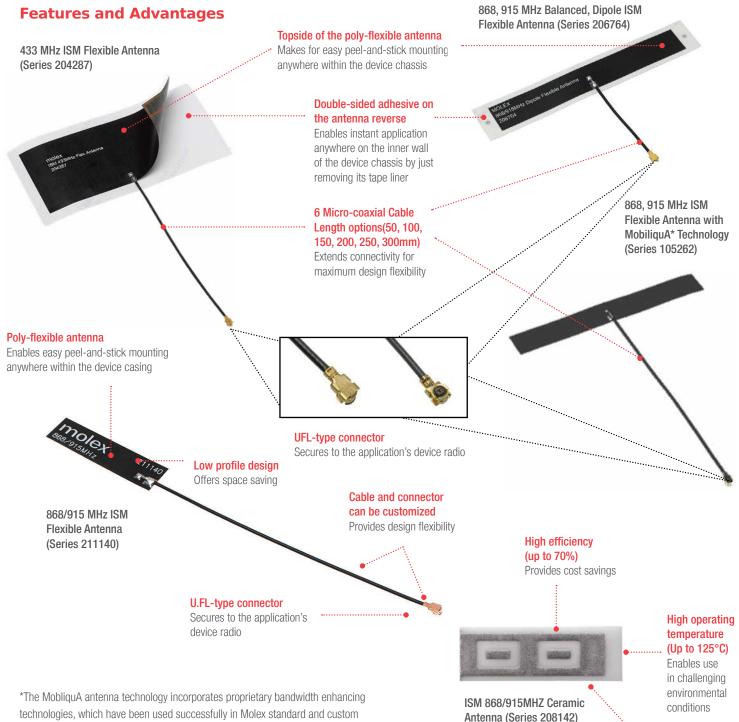
# Industrial, Scientific and Medical (ISM) Antennas



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



Low profile design Offers space saving

technologies, which have been used successfully in Molex standard and custom antenna designs. The technology is designed to improve impedance bandwidth in any application with a wireless interface antenna, including mobile phones, smart phones, portable TVs, and standard antennas in industrial applications. Traditional passive antenna structures are based on meandered antenna patterns, with limitations on manufacturing tolerances and mechanical properties. MobliquA technology enables simple mechanical and robust antenna designs that minimize efforts needed for iterative retuning during each build cycle.

# Industrial, Scientific and Medical (ISM) Antennas

# molex

## **Applications**

#### Industrial

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

#### Scientific

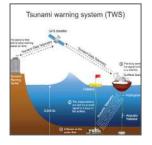
Optical connectivity solutions Underwater sensor networks

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
<u>105262</u>	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
<u>208142</u>	868, 915	9.00 by 3.00 by 0.63

### www.molex.com/link/standard\_antennas.html

Molex is a registered trademark of Molex, LLC in the United States of America and may be registered in other countries; all other trademarks listed herein belong to their respective owners.