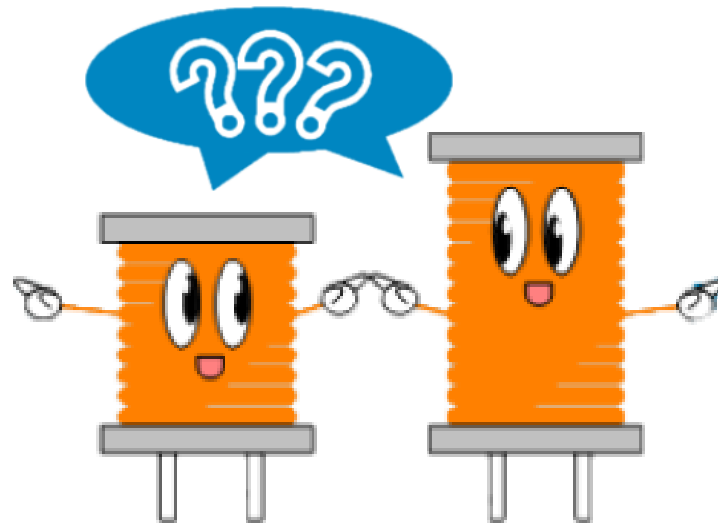


# Dear Rookie of the Coil

## Chapter 5 Coil's Functions 【Transmission & Reception of radio wave】



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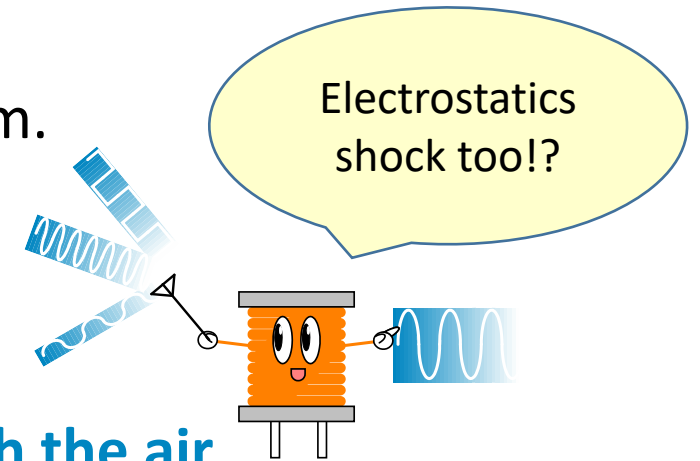
# Coil's Functions "Transmission & Reception of radio wave"

We will explain about one of functions  
"Transmission & Reception of radio wave" in this time.

Radio Waves are flying in the air  
even though we are not able to see them.

What is **Radio Waves** like ?

**Radio Waves are  
the Wave of Electrical Energy moving through the air.**



Radio, TV, Smartphone, Satellite etc...  
Coil contributes to the receiving of these types of radio waves.

# Coil's Functions "Transmission & Reception of radio wave"

## Example of **Transmission and Reception of Radio Waves** by through coil Using IC Card at Automatic Ticket Gate

1. The radio waves are transmitted the Card reader in the Automatic Ticket Gate.
2. When you put the IC Card coil's built in closer to the Gate,  
that IC Card would receive the radio wave.
3. Electric Current is generated as Coil is put close to the radio wave.
4. That Current activates the IC chip of the IC Card.
5. The data communication is processed through the coil.

