

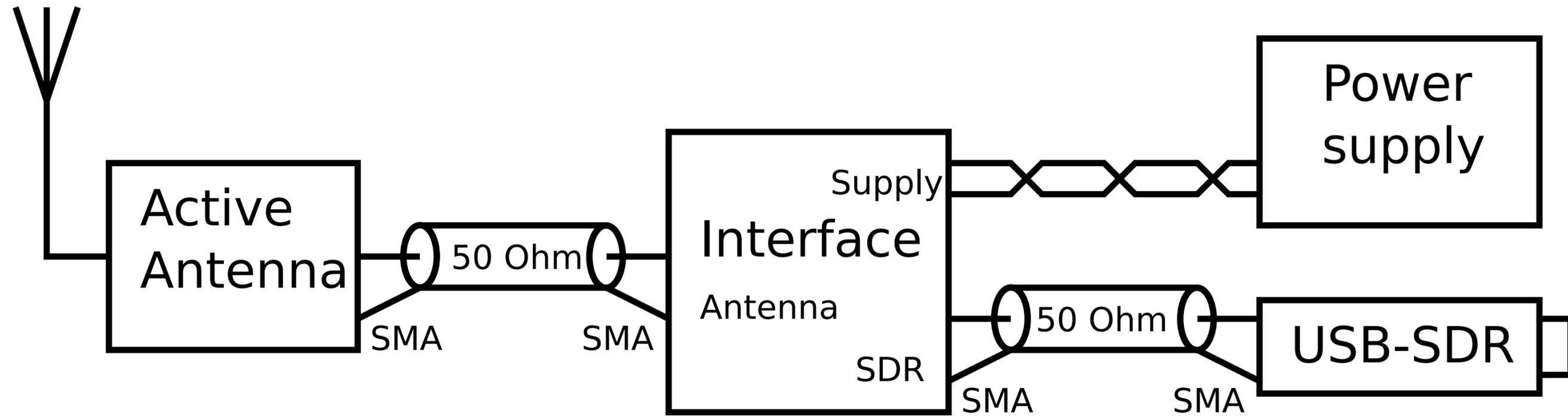
# **Structured Electronic Design**

EE3C11

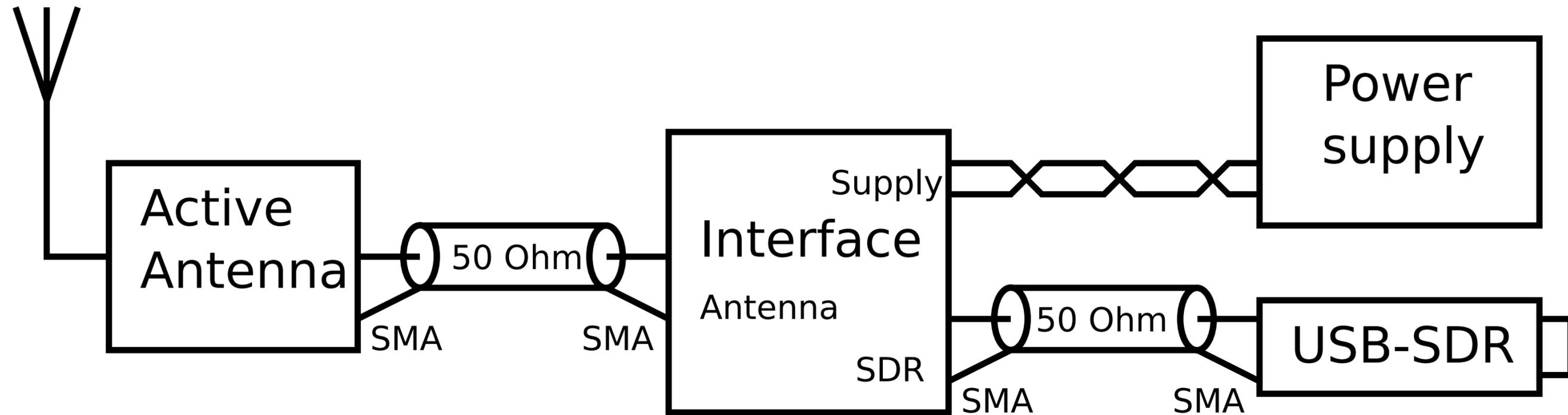
Design of the Active Antenna  
Understand the Application

*Anton J.M. Montagne*

# Understand the application

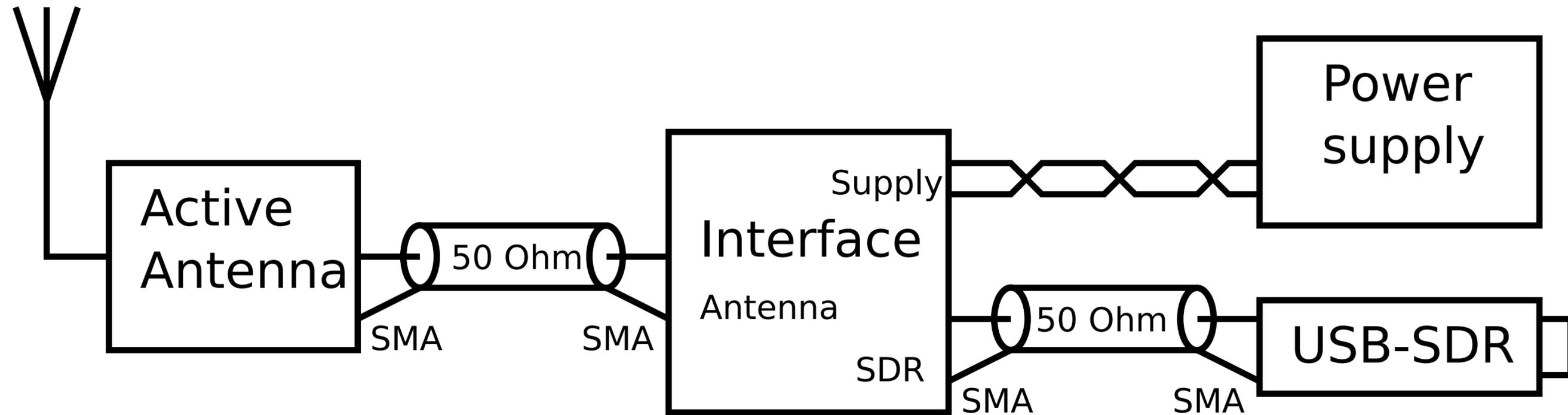


# Understand the application



In which way do the voltage and current generated by the antenna depend on the E-Field?

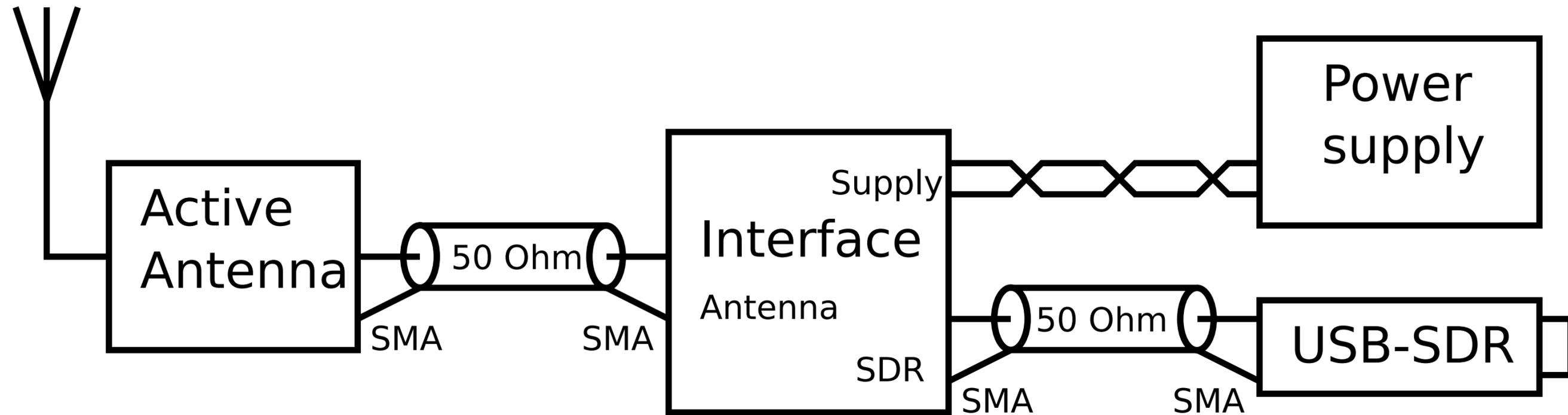
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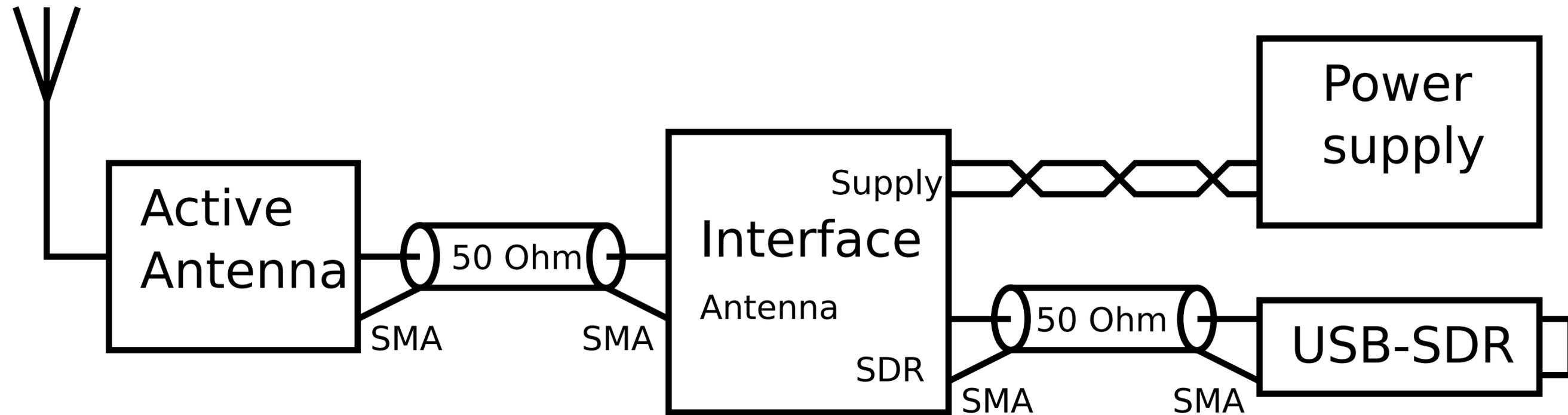


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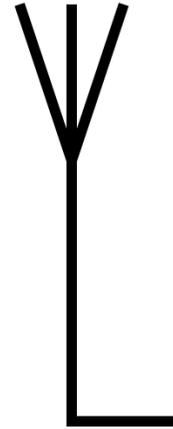
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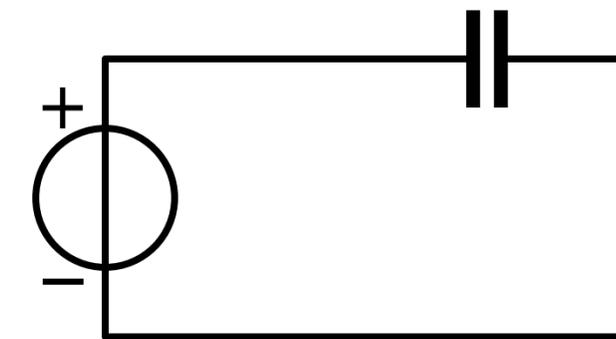
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$$d = 5\text{mm}$$

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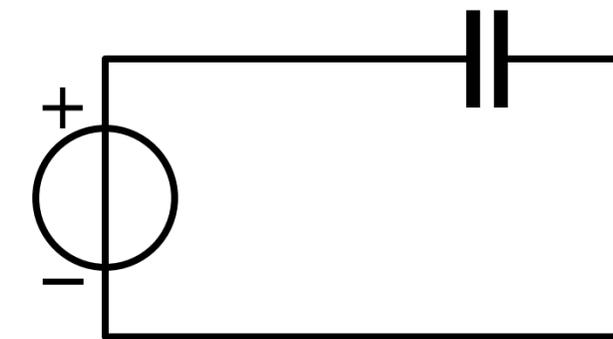
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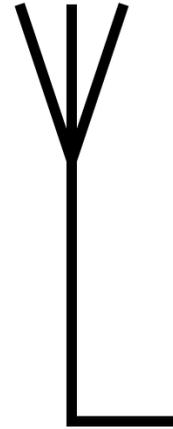
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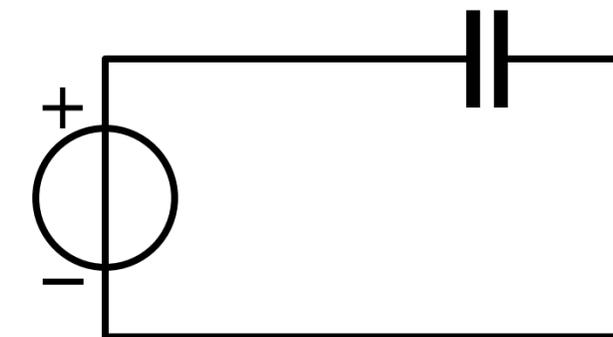
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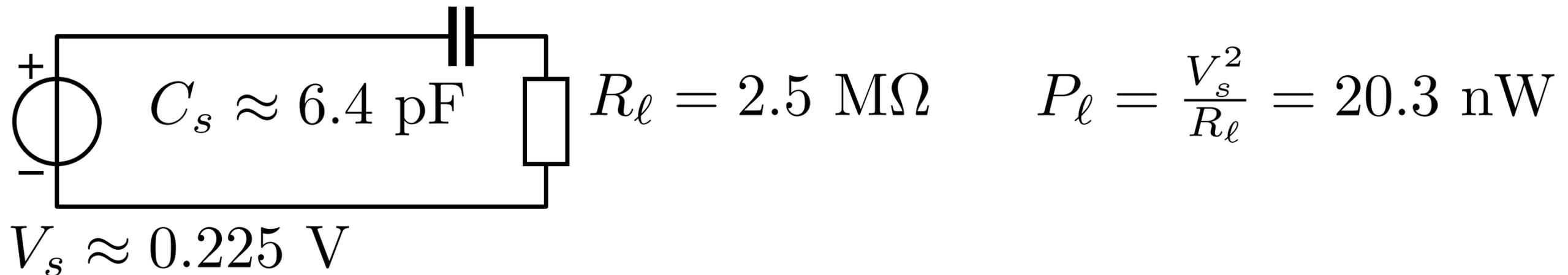
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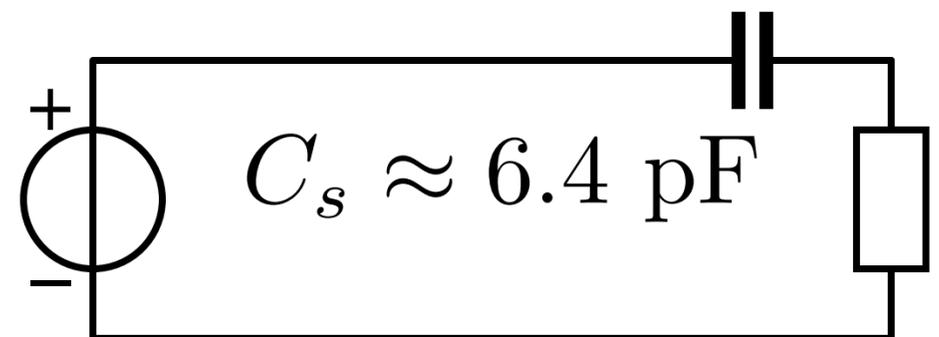
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Required load power at this antenna voltage is 4 mW.  
Hence, amplification is required.

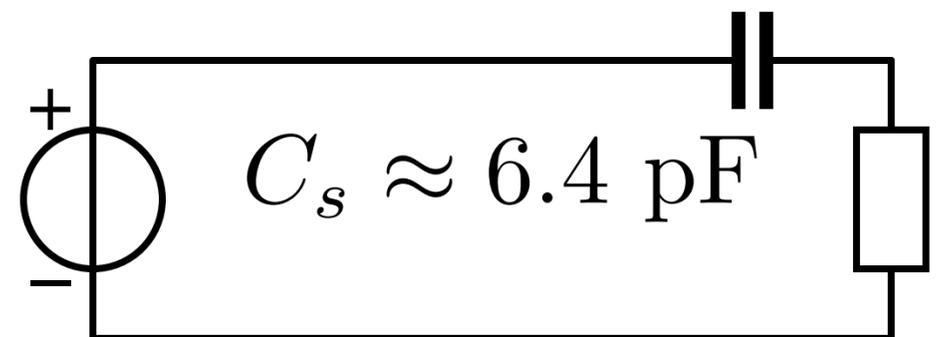
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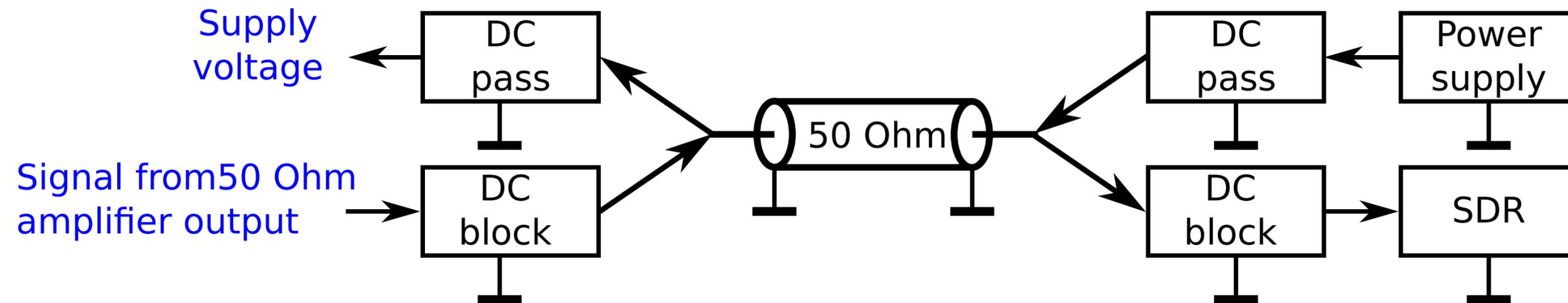
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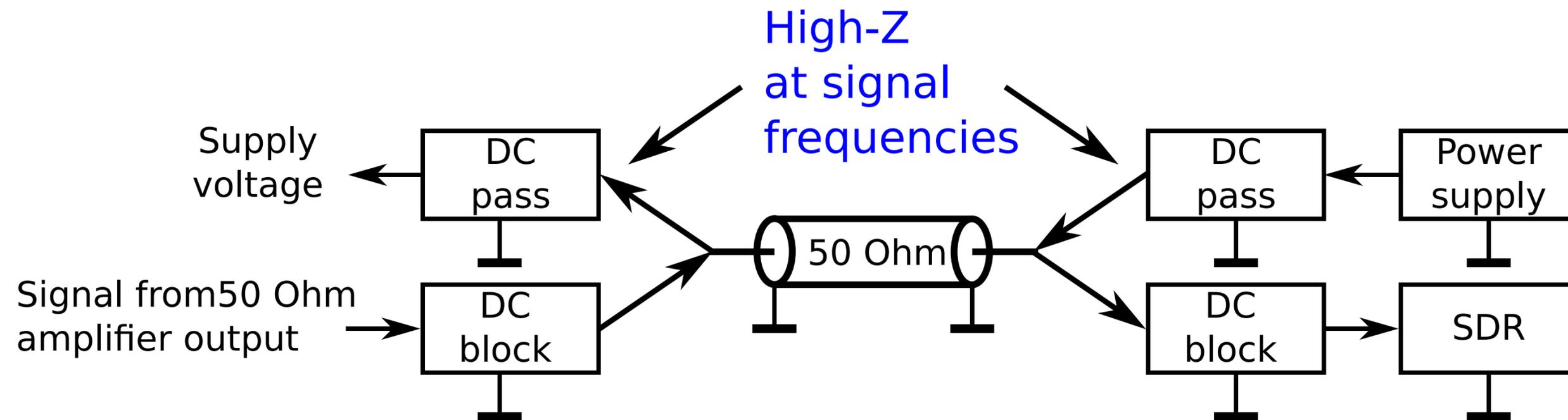
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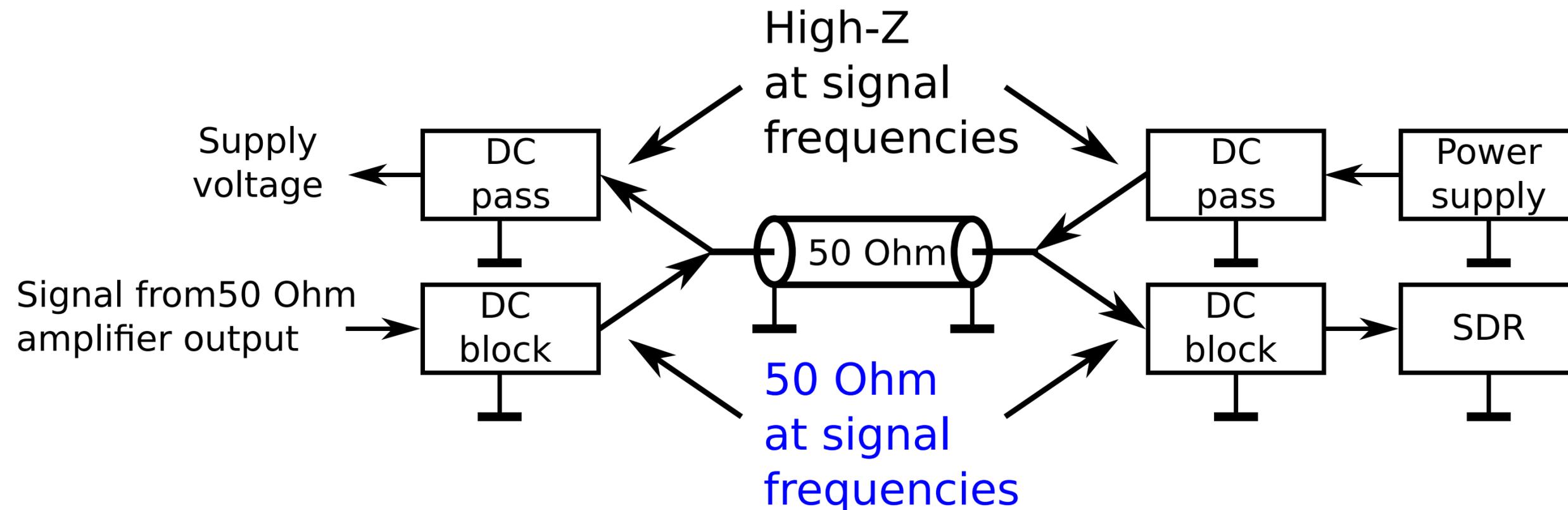
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