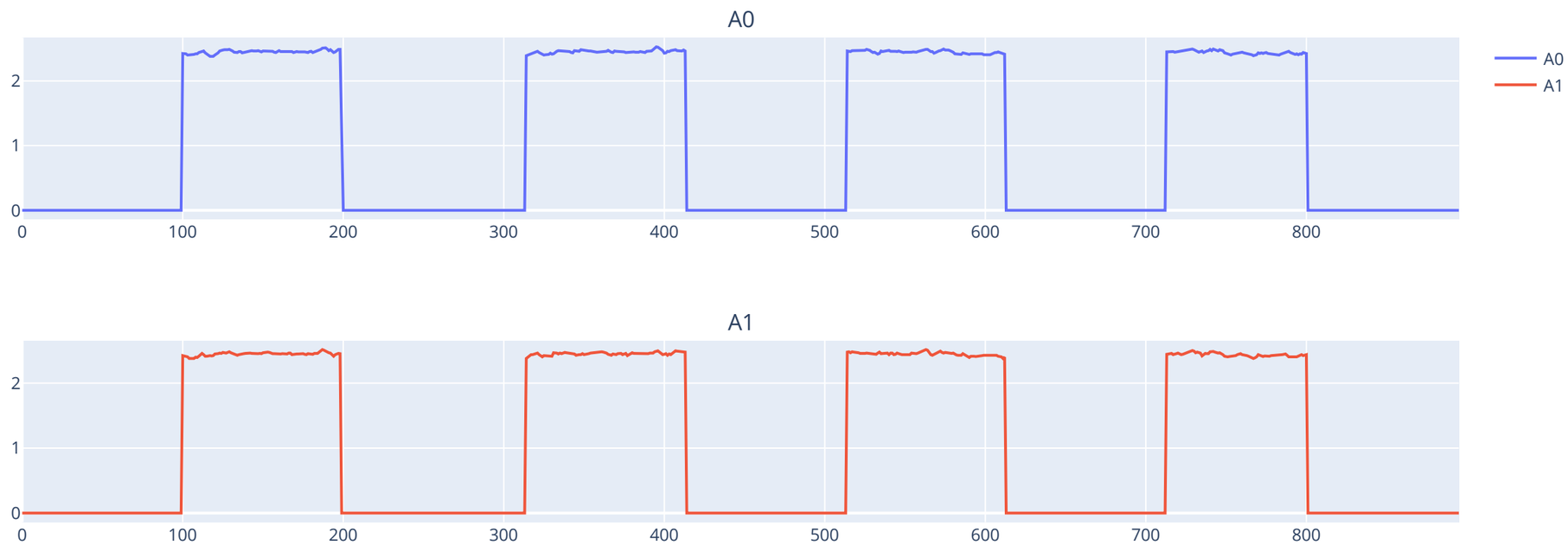
In [1]:
```
import numpy as np
import pandas as pd
import plotly.graph_objects as go
from plotly.subplots import make_subplots
```

In [2]:
```
c1 = pd.read_csv('c1_1.csv')
c2 = pd.read_csv('C2_2.csv')
cf = pd.read_csv('C2_f.csv')
```

In [3]:
```
fig = make_subplots(2, 1,subplot_titles=("A0","A1"))
fig.add_trace( go.Scatter(x=c1.index, y=c1["A0(V)"], mode = "lines", name="A0"), row=1, col=1)
fig.add_trace( go.Scatter(x=c1.index, y=c1["A1(V)"], mode = "lines", name="A1"), row=2, col=1)
fig.show()
```



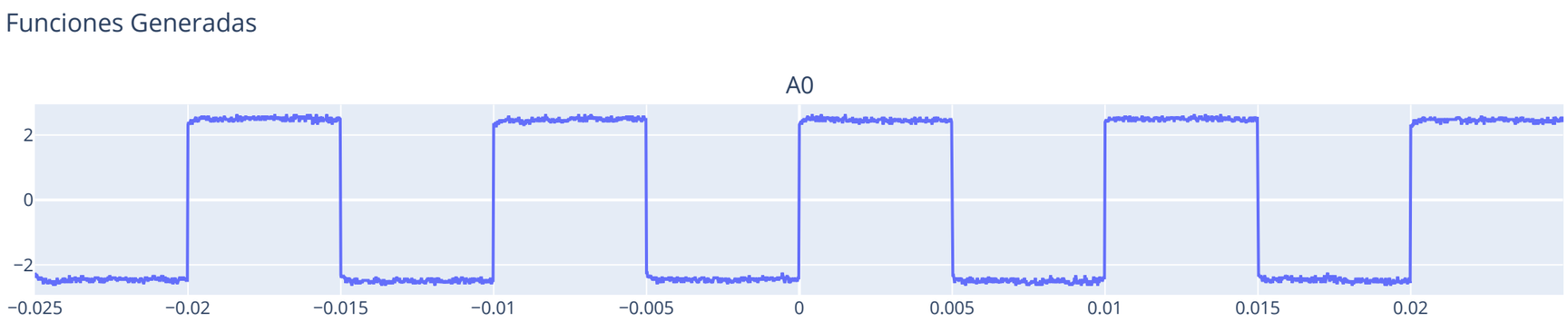
In [4]:
```
t1_1 = 1/(max(c1["A0(V)"])/np.sqrt(2))
t1_2 = 1/(max(c1["A1(V)"])/np.sqrt(2))
print(t1_1, t1_2)
```

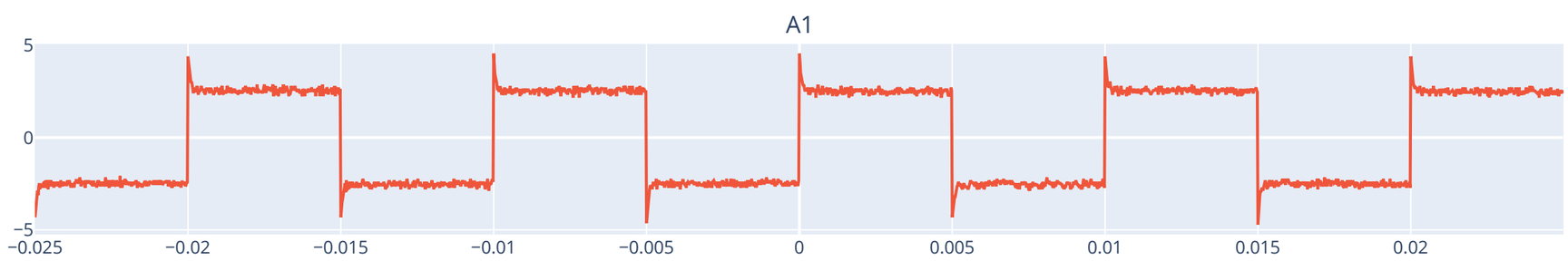
```
0.5596412989208925 0.5618647446853775
```

Circuito RLC

In [9]:
```
fig = make_subplots(2, 1,subplot_titles=("A0","A1"))
fig.add_trace( go.Scatter(x=c2["t"], y=c2["Va"], mode = "lines", name="A0"), row=1, col=1)
fig.add_trace( go.Scatter(x=c2["t"], y=c2["Vb"], mode = "lines", name="A1"), row=2, col=1)

fig.update_layout(showlegend=False, title_text="1 Inductancia")
fig.show()
```





In [11]:
```
fig = make_subplots(2, 1,subplot_titles=("A0","A1"))
fig.add_trace( go.Scatter(x=cf["t"], y=cf["Va"], mode = "lines", name="A0"), row=1, col=1)
fig.add_trace( go.Scatter(x=cf["t"], y=cf["Vb"], mode = "lines", name="A1"), row=2, col=1)

fig.update_layout(showlegend=False, title_text="2 Inductancias")
fig.show()
```

In [12]:
```
#Voltaje pico a pico
Vpp1 = max(c2["Va"])-min(c2["Va"])
Vpp2 = max(cf["Va"])-min(cf["Va"])
print(Vpp1,Vpp2)
```

```
5.2799998 5.35999993
```

In [14]:
```
#Frecuencia resonancia
w2_1 = (max(c2["Va"])/np.sqrt(2))
w2_2 = (max(cf["Va"]))/np.sqrt(2)
print(w2_1, w2_2)
```

```
1.866761831621807 1.866761831621807
```