

# Amatörce Sohbetler

27 Nisan 2022



**Volkan ŞAMLI (TA1DE)**

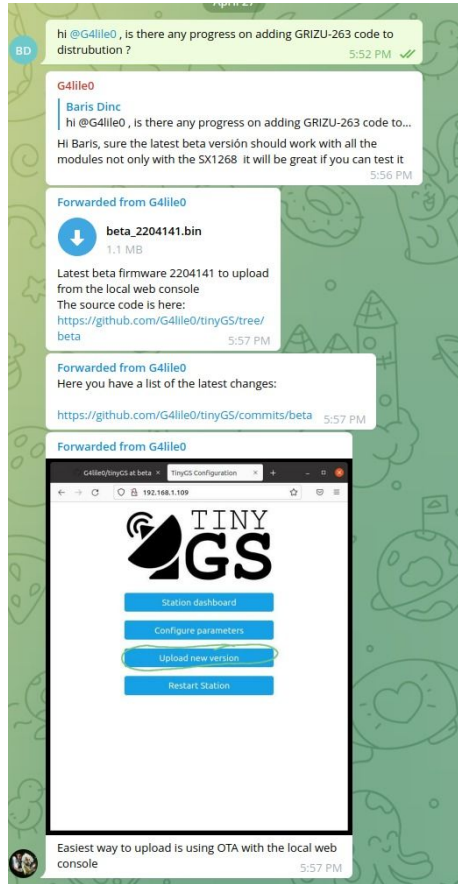


**Barış DİNÇ (TA7W/OH2UDS)**

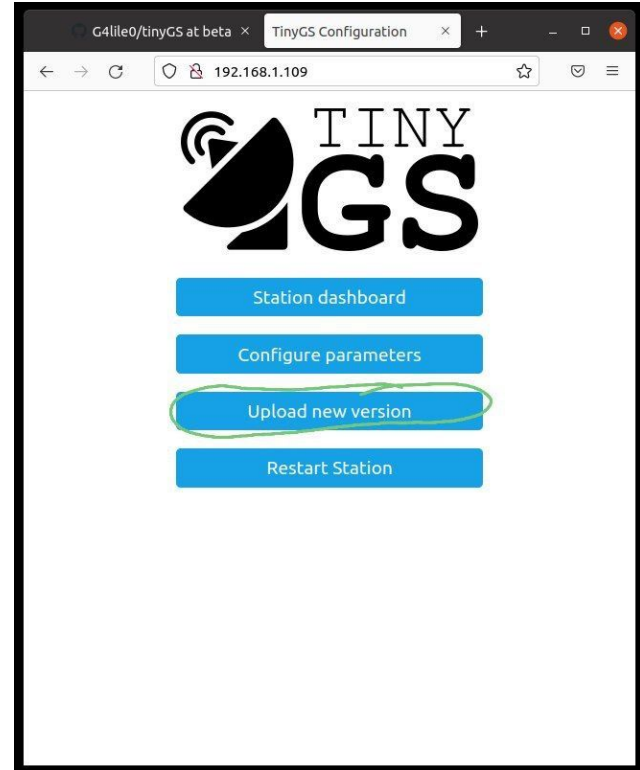
## Gündem

- TinyGS ve GRIZU-263 Guncellemesi
- MoEP/DMP 23 Nisan Etkinliğimiz
- Empedans nedir ?
- Filtreler
  - Alcak Geciren
  - Yuksek Geciren
  - Band Geciren
  - Band Reject
- Smith Chart'a giris

# TinyGS Grizu-263 Guncellemesi



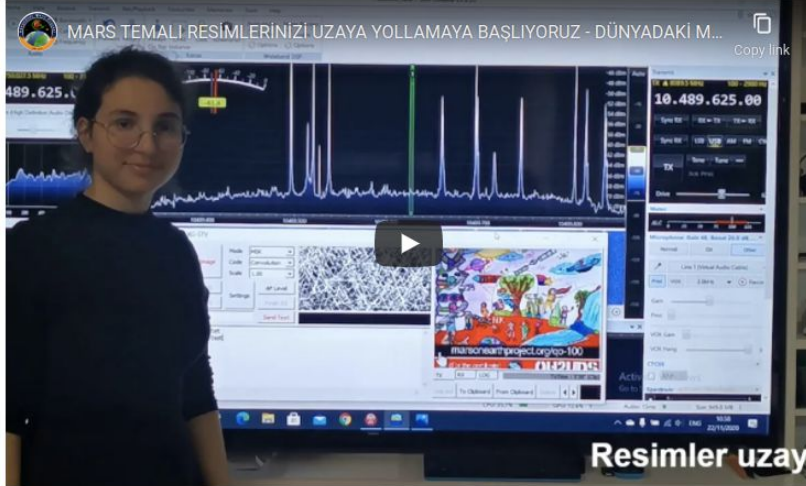
<https://github.com/G4lile0/tinyGS/tree/beta>





<https://marsonearthproject.org/23-nisan-kgstv-etkinligi/>

**“Her çocuk uzaya dokunabilmeli”** dedik ve bu kez ülkemizin uzak bir şehrinden, Şırnak-Silopi'deki çocuklarımızın çizdiği resimlerini uzaya ve QO-100 uydusuna gönderiyoruz.



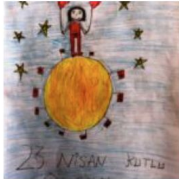
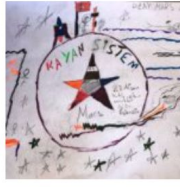
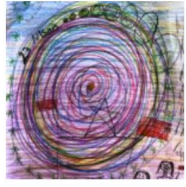
<https://marsonearthproject.org/kg-stv-activity-on-qo-100/>





Büşra öğretmen ve Şırnak-Silopi Çiftlik Ortaokulu 6/A, 6/B ve 6/C sınıfı öğrencileri



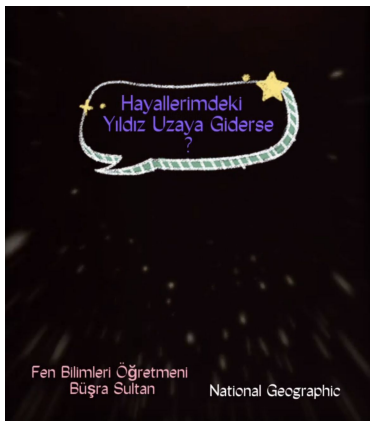


## Teşekkür

- Etkinliği koordine eden değerli öğretmenimiz Sayın **Büşra Sultan ATAKUL'a**,
- **Karadeniz Teknik Üniversitesi – Uzay Takımı'nın** genç operatörlerine,
- Yerli ve yabancı diğer amatör telsiz operatörlerine,
- Finlandiya (Burcu Aybak Dinç, **OH2CAV** – Barış Dinç, **OH2UDS**) ve Almanya'daki (İsmail Erdoğan, **DL2IE**) MoEP Amatör Uydu Haberleşme İstasyonu operatörlerimize teşekkürlerimizi sunuyoruz.

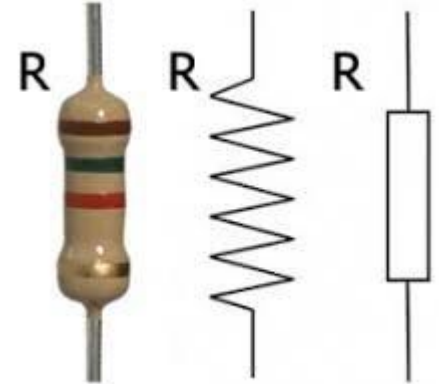
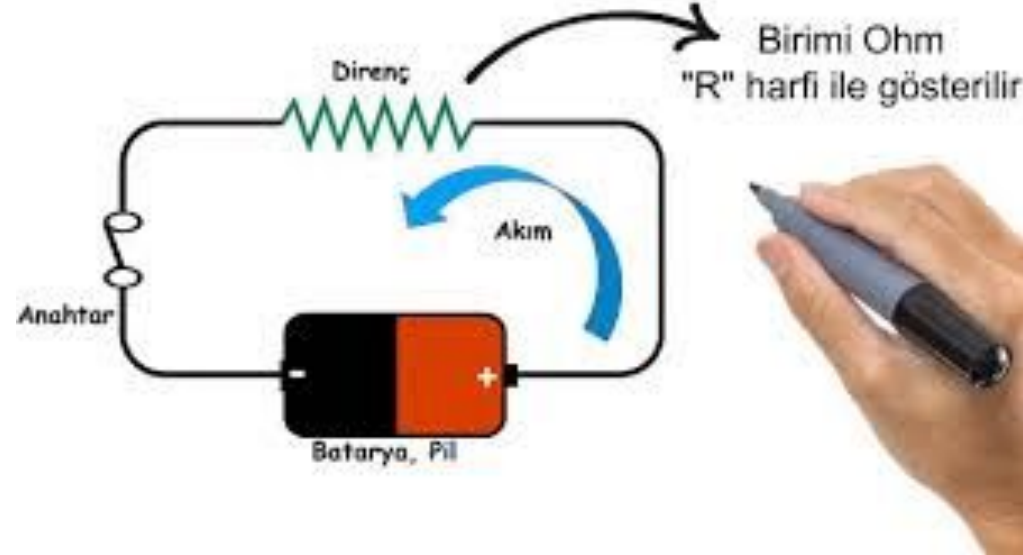
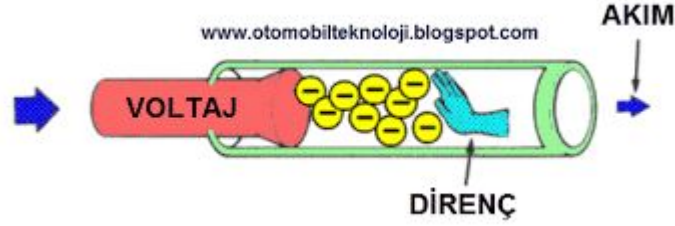




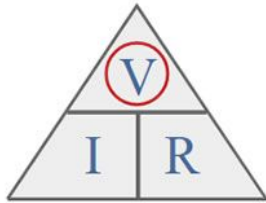
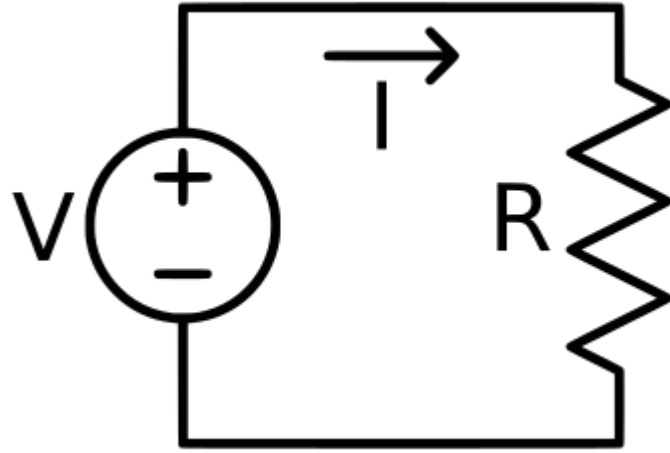


<https://www.instagram.com/tv/Cc07eNyo6fO/?igshid=MDJmNzVkMjY=>

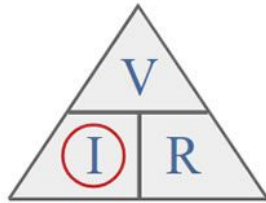
# DİRENÇ NEDİR ?



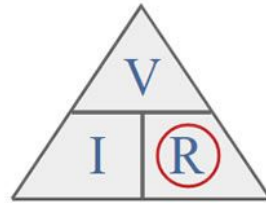
# OHM Kanunu



$$V = IR$$



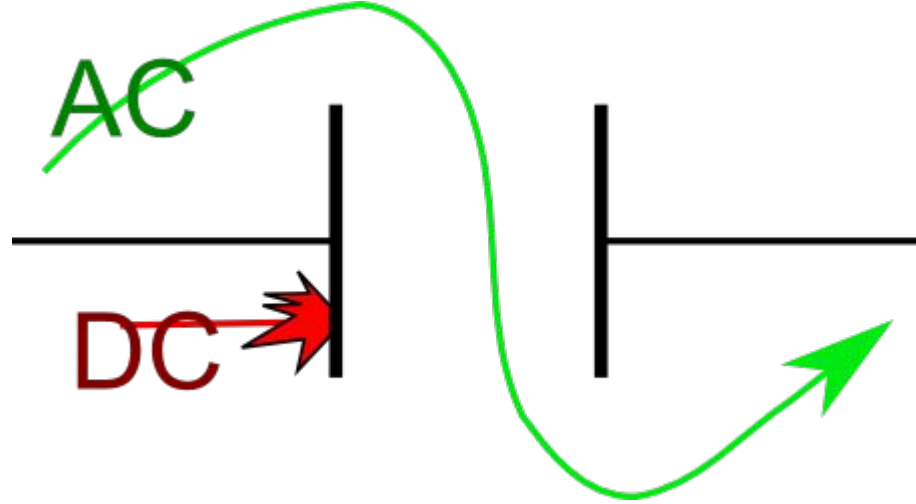
$$I = \frac{V}{R}$$



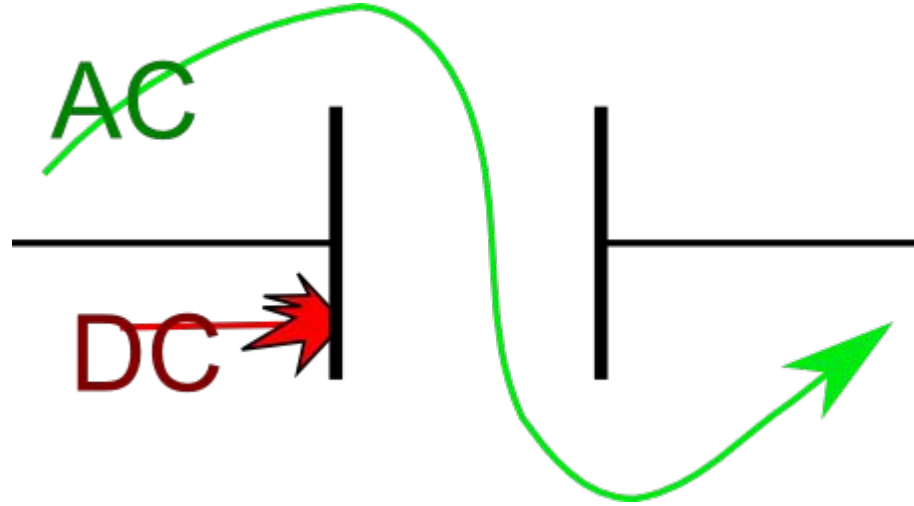
$$R = \frac{V}{I}$$



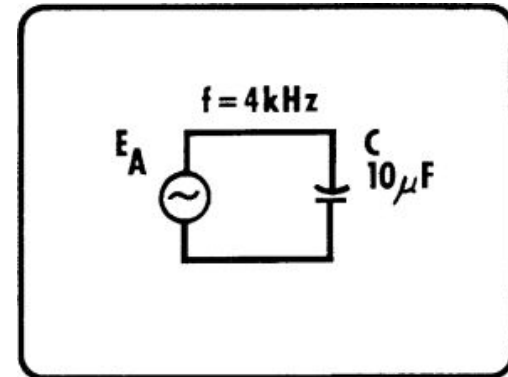
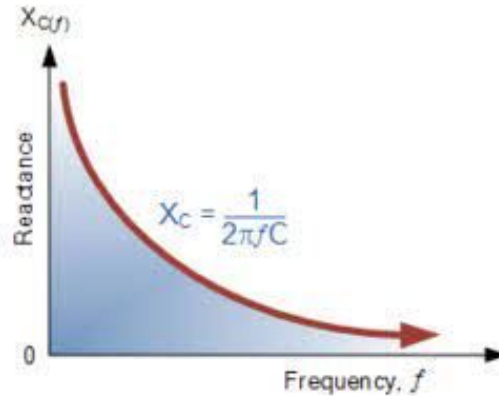
Kapasitörün de bir direnci var mı ?



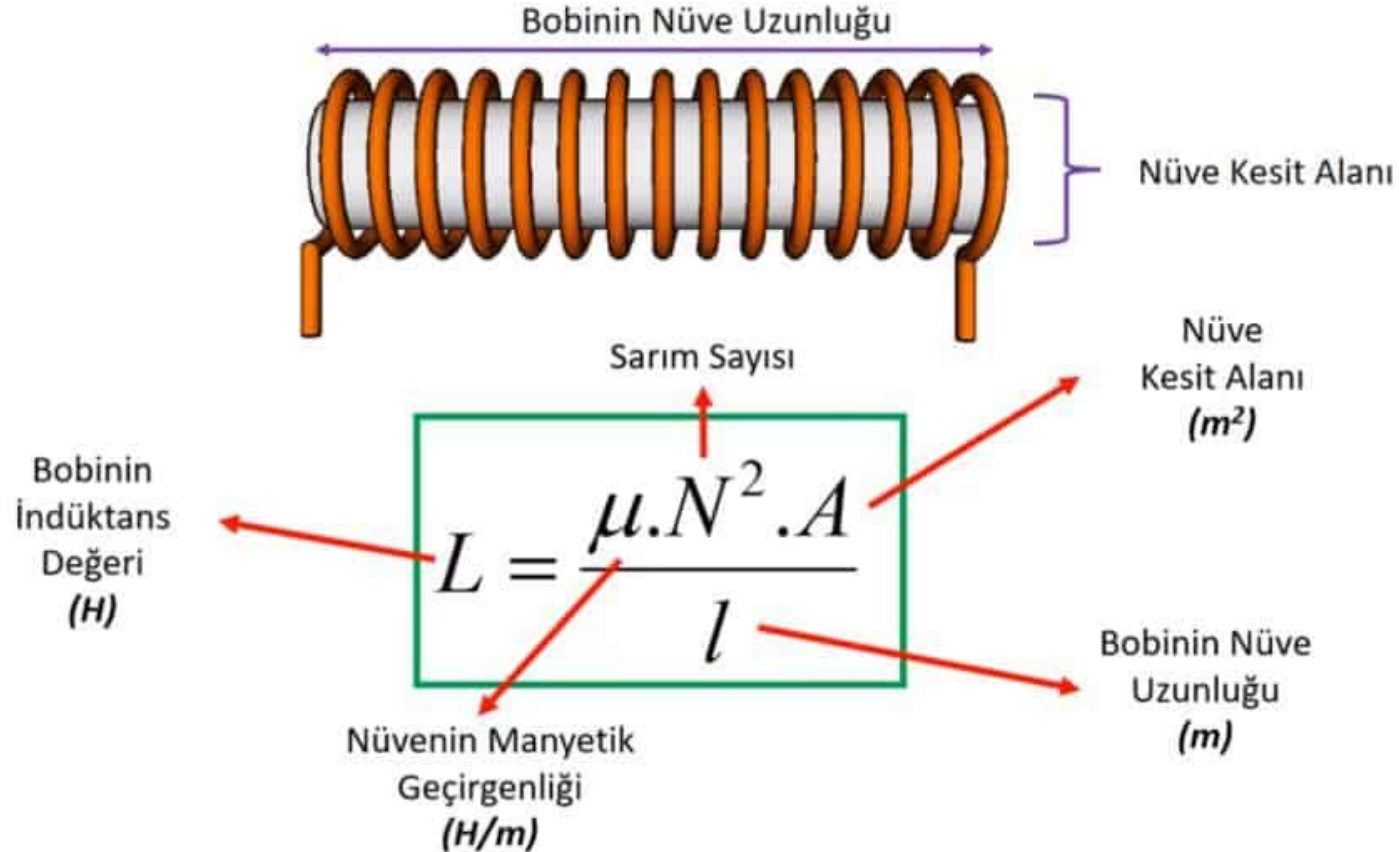
# Kapasitörün de bir direnci var mı ?



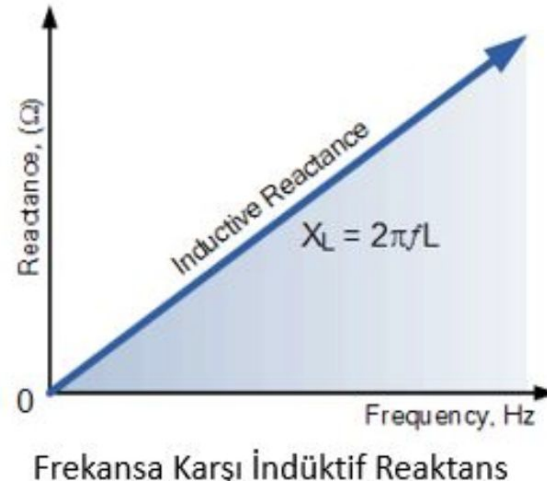
$$X_C = \frac{1}{2\pi f C}$$



# Peki ya bobinlerin direnci ? Sadece kablo direnci mi ?



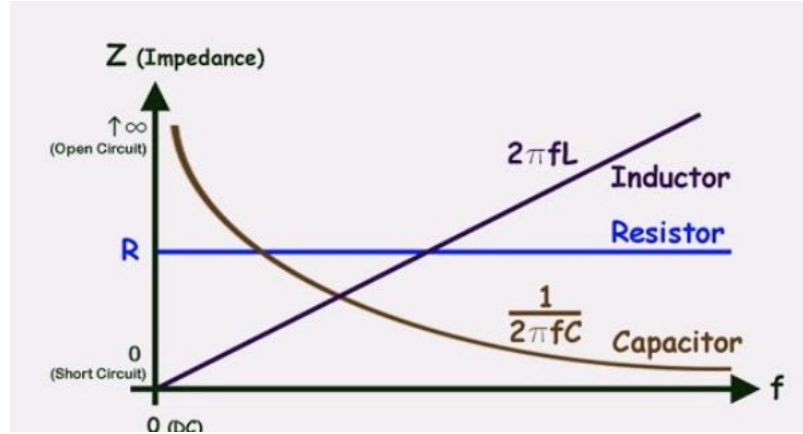
# Endüktif reaktans



$$X_L = 2 \pi \cdot f \cdot L$$



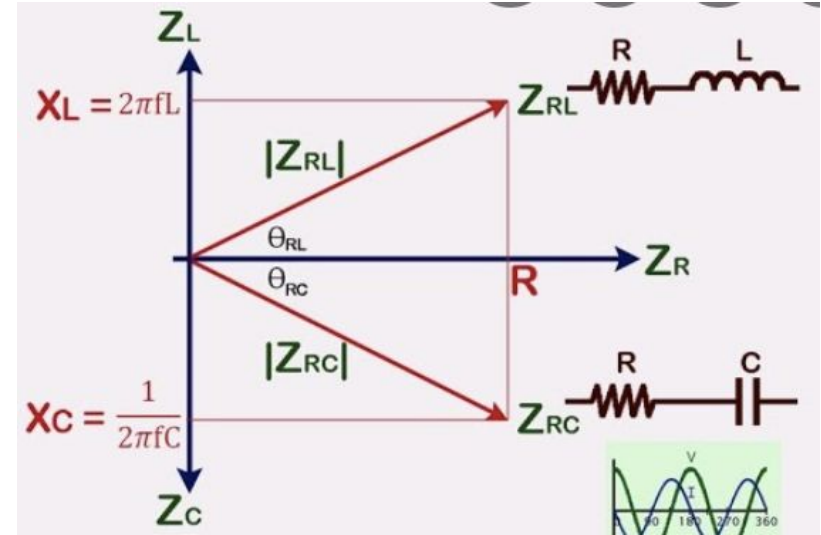
# Gerçek mi, Sanal mı ?



$$X_C = -\frac{1}{2\pi fC}$$

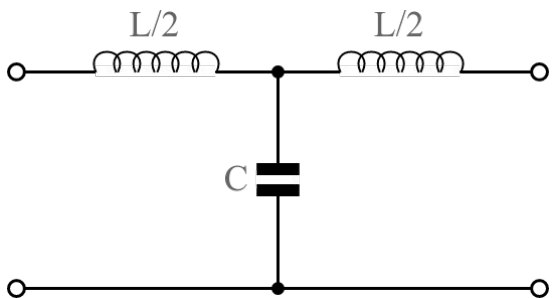
$$X_L = 2\pi fL$$

$$Z = R + X_C + X_L$$

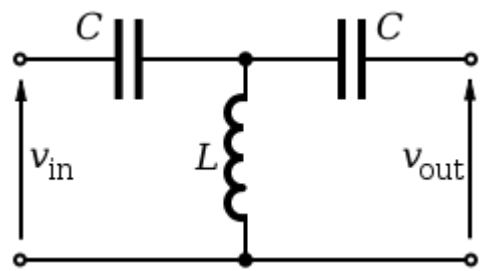
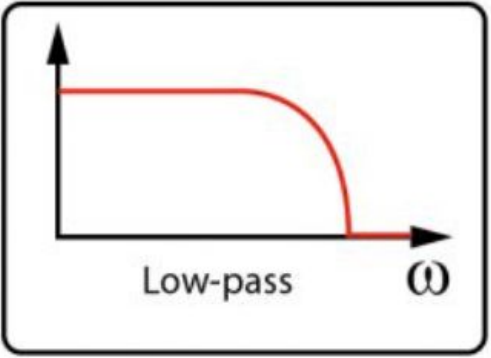


EMPEDANS

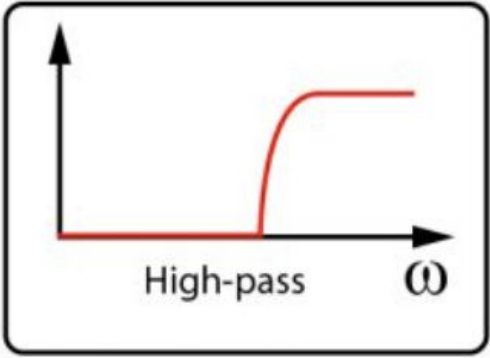
# Filtreler



Alçak Geçiren Filtre



Yüksek Geçiren Filtre



## Sırada ne var ?

- Empedans hesapları
- Filtre hesapları
- Rezonans
- Smith chart
- VNA kullanımı detayları