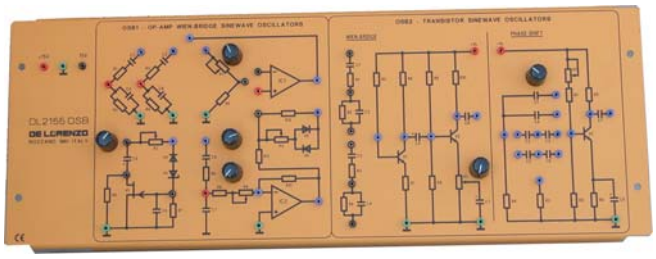
ELECTRONICS

Low Frequency Oscillators



DL 2155OSB

The board allows to carry out functional verifications on the most widespread low frequency sinusoidal oscillators.
The RC phase-shift transistor-based oscillators and the Wien bridge oscillators are afforded in the two transistor and operational amplifier configurations.
Moreover, in the Wien bridge version the possibility of adjusting the amplitude and the frequency of the oscillation is analysed.
The board is supplied complete with a set of stackable, plug-in cables of suitable lengths and colours and with a training manual.
Power supply: ± 15 Vdc, 750 mA

Experiments

- Operation of a transistor-based RC phase shift oscillator
- Operation of a Wien bridge oscillator in the transistor and operational amplifier configurations
- Wien bridge oscillator with FET stabilization network
- Wien bridge oscillator with regulation of the oscillation amplitude and frequency

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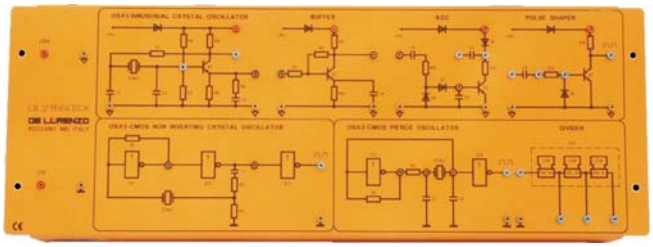
Quartz Oscillators



DL 2155OSX

The need of accurate-value, time stable and temperature-stable oscillators can be seen in a wide range of applications: instrumentation and military, industrial and consumer equipment.
To satisfy these requirements, quartz oscillators are normally used. The carrying out of both sinusoidal oscillators and square-wave oscillators is of significant interest.
The board is supplied complete with a set of stackable, plug-in cables of suitable lengths and colours and with a training manual.
Power supply: + 15 Vdc and + 5 Vdc, 100 mA

Experiments

- Square wave and sinusoidal transistor-based quartz oscillator
- CMOS quartz oscillators with not inverting amplifier
- CMOS quartz oscillator of PIERCE type
- Measurement on quartz time base