

RC OSCILLATOR



5Hz to 500kHz
0.005% Low Distortion (10Hz to 20kHz)



Outline

The ORC11 is a low distortion RC oscillator that covers the 5Hz to 500kHz frequency range.

Features

- Wide oscillation frequency range
The ORC11 covers the 5Hz to 500kHz frequency range with 2-speed coarse and fine adjustment dials and 5 ranges pushbutton switches. Operability is excellent.
- Low distortion
The sine wave distortion factor is 0.005% or less over the 10Hz to 20kHz range.
- Output voltage can be directly read
The output voltage is quantitatively output from 0dB to -79.7dB in 0.1dB steps.
- Flat output frequency characteristic
Within ± 0.2 dB from 5Hz to 20kHz.
- Generates sine waves and square waves
Sine waves or square waves can be output by switching a slide switch. The output voltage of both waves can be set with an attenuator. The output waves swing about 0V.
- TTL OUT terminal

Specifications

- Oscillation frequency range 5Hz to 500kHz
- Frequency ranges $\times 1, \times 10, \times 100, \times 1k, \times 10k$
- Frequency accuracy $\pm(3\%+1\text{Hz})$
- Output waveform Sine wave, square wave
- Maximum output open circuit voltage Sine wave: 3.16Vrms $\pm 5\%$
Square wave: 4Vp-p min.
- Output frequency characteristic 5Hz to 20kHz Within ± 0.2 dB
20kHz to 50kHz Within ± 0.5 dB
- Distortion factor 5Hz to 500kHz 0.1% max.
10Hz to 20kHz 0.005% max.
20kHz to 50kHz 0.01% max.
- Output impedance 600 $\Omega \pm 10\%$ (unbalanced)
- Output attenuators 10dB step $\times 7, 1$ dB step $\times 9, 0.1$ dB step $\times 9$
- Output terminal BNC receptacle
- Power requirement 90 to 110, 104 to 126, 194 to 236, 207 to 253V
AC, selectable, 50/60Hz
- Power consumption Approx. 9VA
- Weight Approx. 3.5kg
- Dimensions (MAX) 136W \times 180H \times 250Dmm(145W \times 215H \times 300Dmm)