

ORC11 Not sold in some area

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: $3.16\text{Vrms} \pm 5\%$
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 $\times 7$, 1dB step $\times 9$, 0.1dB 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)** $136\text{W} \times 180\text{H} \times 250\text{Dmm}$ ($145\text{W} \times 215\text{H} \times 300\text{Dmm}$)