

## 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  $\pm 0.2$ 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  $\pm 0.2$ dB  
20kHz to 50kHz Within  $\pm 0.5$ 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) 136W  $\times$  180H  $\times$  250Dmm(145W  $\times$  215H  $\times$  300Dmm)