

ICL8038 SIGNAL GENERATOR MODULE

The ICL8038 is a classic - integrated monolithic function generator that enables the generation of basic electrical waveforms such as sine, rectangle, triangle (saw). It is ideal for amateur applications, as well as for simple applications in the electronic service. The ICL8038 module is designed for popular frequency ranges. It is adjustable from 5 frequency sub-ranges and generates low distortion triangle, square and sine waves from 10Hz to 450kHz. The sine wave can be used for test signals, drive signals, carrier frequency signals, etc., the square wave can be used for switching signals, trigger signals, clock signals, etc., and the triangle wave is mainly used for scanning signals.

Technical data:

- a module of a simple electric waveform generator
- design based on ICL8038
- ICL8038 chip in a DIP housing in a socket
- generated waveforms: triangular, square, sine wave
- frequency adjustment range: 10Hz ~ 450kHz
- 5 frequency sub-ranges
- fill factor adjustment: 2% to 98%
- low distortion for a sine wave: 1%
- temperature drift: 50ppm/°C
- triangular wave output linearity: 0.1%
- supply voltage: from 12V to 15Vdc

Module components:

- ARK power connector for screwing wires
 - Vcc (+) power
 - Gnd (-) ground
- output connector: Godlpin strip 2.54mm/100mils
 - jumper P2 - waveform selection: triangle, rectangle, sine wave
 - jumper P3 - frequency range selection:
 - 10Hz-450Hz
 - 90Hz-1.5kHz
 - 940Hz-15kHz
 - 6kHz-120kHz
 - 20kHz-450kHz