



Model : LS3002, LS3005

Function Generators

Model LS3002, LS3005 and EM-1646 function generators are versatile signal sources combining several functions into one unit. The heart of the function generator is a voltage-controlled generator that produces precision sine, square, or triangle waves over the 0.5Hz to 5MHz range (LS3005) or 0.2Hz to 2MHz (LS3002) or 1Hz to 10MHz (EM-1646 range) respectively.

- LS3005 (5MHz)
 - Frequency characters
 - Range: 0.5Hz to 5MHz, 6 ranges.
 - Waveforms: Sine, square, triangle, pulse, ramp
 - Output characters
 - Level: 20V p-p open circuit, 10V p-p into 50 ohm.
 - Impedance: 50 ohm +/-10%.
 - DC offset: Variable: +/-10V open circuit, +/-5V into 50 ohm.
 - Sinewave
 - Distortion: less than 2% at 1KHz.
 - Flatness: < 0.3dB for 5Hz to 500KHz; ≤ 1dB 500KHz - 5MHz.
 - Squarewave
 - Risetime: ≤ 50ns.
 - Symmetry: ≤ +/-3%, 2Hz to 100KHz.
 - Triangle: Linearity.
- LS3002 (2MHz)
 - Frequency characters
 - Range: 0.2Hz to 2MHz, 6 ranges.
 - Waveforms: Sine, square, triangle, pulse, ramp
 - Output characters
 - Level: 20V p-p open circuit, 10V p-p into 50 ohm.
 - Impedance: 50 ohm +/-10%.
 - DC offset: Variable: +/-10V open circuit, +/-5V into 50 ohm.
 - Sinewave
 - Distortion: ≤ 2% at 1KHz.
 - Flatness: ≤ 1dB.
 - Squarewave
 - Risetime: ≤ 50ns.
 - Symmetry: ≤ +/-3%, 2Hz to 100KHz.
 - Triangle: 98% at 1KHz.
- Fully featured, easy to use function generator.
- Sine, square, triangle, pulse and ramp output.
- 4 digit LED display.
- DC offset control and duty cycle control.
- Separate outputs for TTL and CMOS signals, CMOS signal with adjustable range to fit the circuit.
- Built-in 4 digit counter.