

SG12 – COB SOUND GENERATOR

Cosmic Guns, Bombs & Sirens

This kit uses a small COB CMOS LSI chip designed for electronic toy applications. It plays a collection of gun, bomb and siren sounds. These chips feature auto power off, one shot mode and wide operating voltage between 2.5V and 5V. Quiescent current drain less than 5uA. Operating current around 0.6mA.

The COB, chip-on-board, is bonded on a 29mm x 16mm single sided PCB.

A motherboard to hold the COB PCB, resistors and transistors is supplied for ease of construction.

The COB board pins are numbered 1 to 14 from left to right when the track side and IC blob are facing you. The COB is inserted from the component side of the motherboard.

You may experiment with the 680K oscillator resistor. A higher resistance will give a lower tune. Any small signal transistor works for Q1.

Switch Outputs

- K1 – Bomb falling with burst
- K2 – Bomb falling
- K3 – Siren sound
- K4 – Siren sound
- K5 – Cosmic Blaster
- K6 – Cosmic Laser Gun
- K7 – Cosmic Phasor Gun
- K8 – Cosmic Machine Gun

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<http://www.quasarelectronics.com>

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COMPONENTS	
8 ohm speaker	1
3V battery snap	1
680K resistor blue grey yellow R1	1
100R resistor brown black brown R2	1
SG12 COB PCB	1
BC547 transistor	1
SG12 motherboard	1
Push-on switch	8

