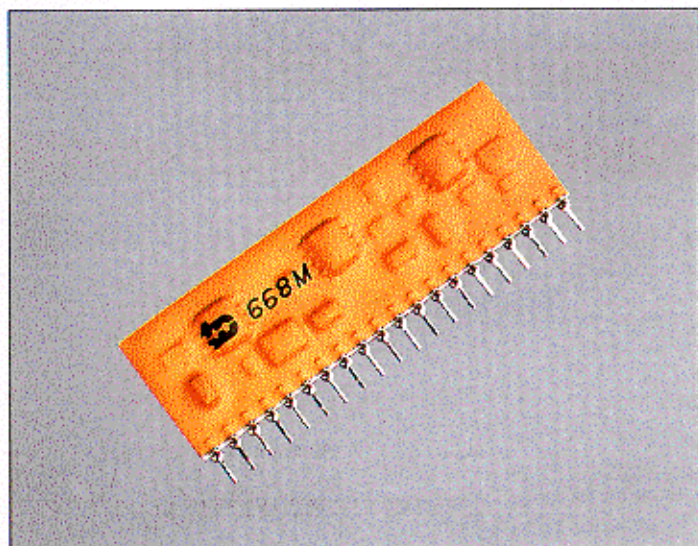


SG4

10 Band Graphic Equalizer



General description

The SG4 is an hybrid circuit that allows to realize a sound effects generator for musical instruments (Guitar and Keyboard), voice equipment amplifiers and professional mixers.

The hybrid integrates the following functions:

10 Band Audio Frequencies (31Hz, 62Hz, 125Hz, 250Hz, 500Hz, 1KHz, 2KHz, 4KHz, 8KHz, 16KHz).

Custom specified frequencies on request.

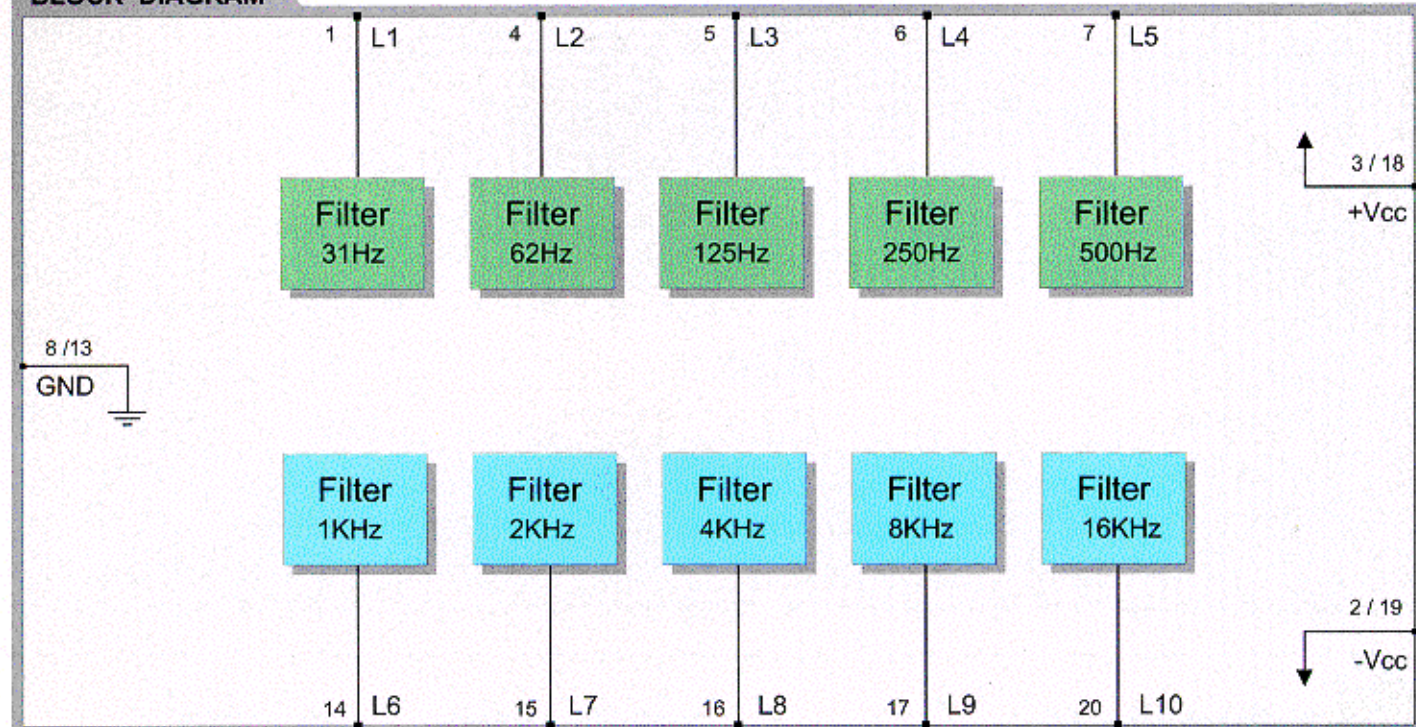
Features

- Gyrtator Audio filter
- No external inductors required
- Ten external potentiometers
- SIL Package
- Thick film hybrid technology

Applications

- Fine Musical Instruments
- Guitar / Keyboard Amplifier
- Audio Mixer
- Karaoke Systems

BLOCK DIAGRAM



Electrical Characteristics

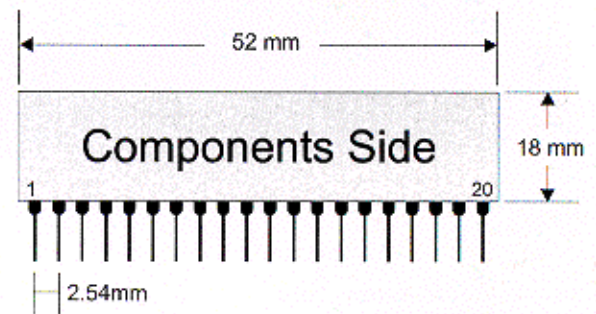
Ta = 25°C unless otherwise specified

CHARACTERISTICS		MIN	TYP	MAX	UNIT
V _{CC}	Supply Voltage	±9	±12	±15	VDC
I _s	Supply Current (V _{cc} = ±15)		20		mA
F _F	Frequency Filter	31		16K	Hz
G _F	Gain Filter (peak/notch)		±12		dB
T _{OP}	Operating Temperature Range	-20		+80	°C

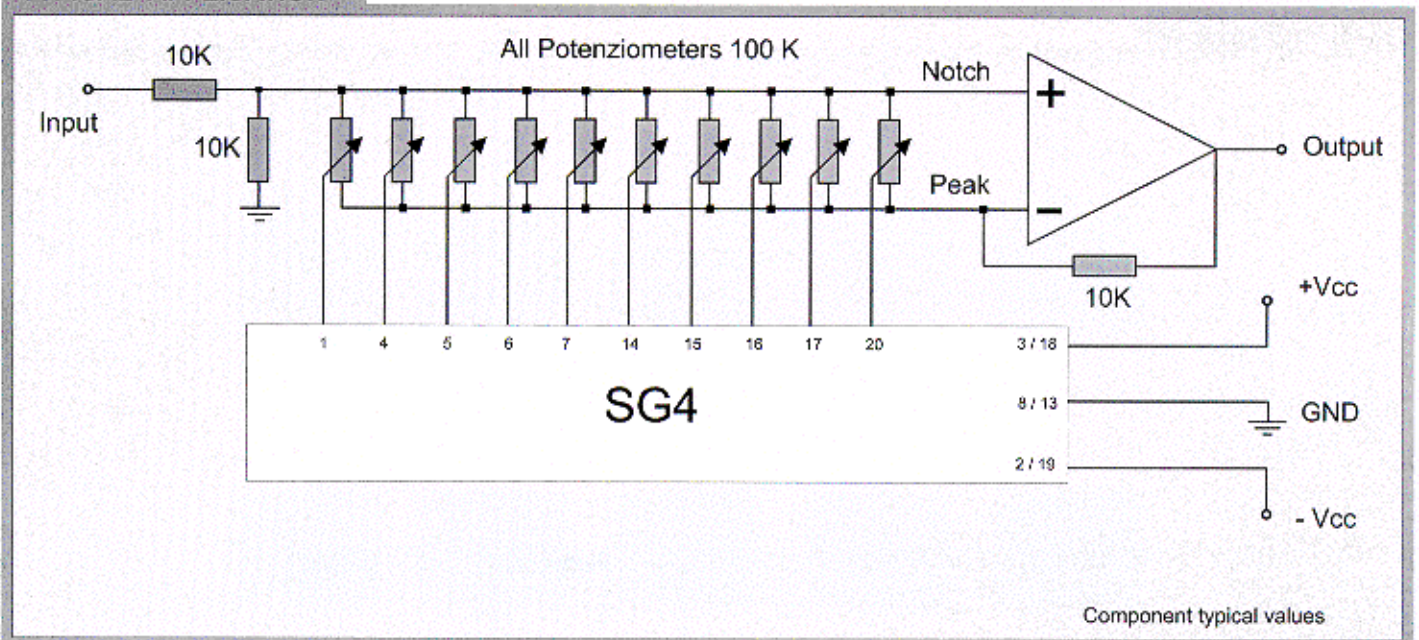
Pin Description

1	L1	31Hz Filter
2 / 19	-VCC	Negative Supply Voltage
3 / 18	+VCC	Positive Supply Voltage
4	L2	62Hz Filter
5	L3	125Hz Filter
6	L4	250Hz Filter
7	L5	500Hz Filter
8 / 13	GND	Ground
9 / 10	NC	Not Connected
11 / 12	NC	Not Connected
14	L6	1KHz Filter
15	L7	2KHz Filter
16	L8	4KHz Filter
17	L9	8KHz Filter
20	L10	16KHz Filter

Mechanical Dimensions



TYPICAL APPLICATION



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RF Solutions is a member of the Low Power Radio Association.