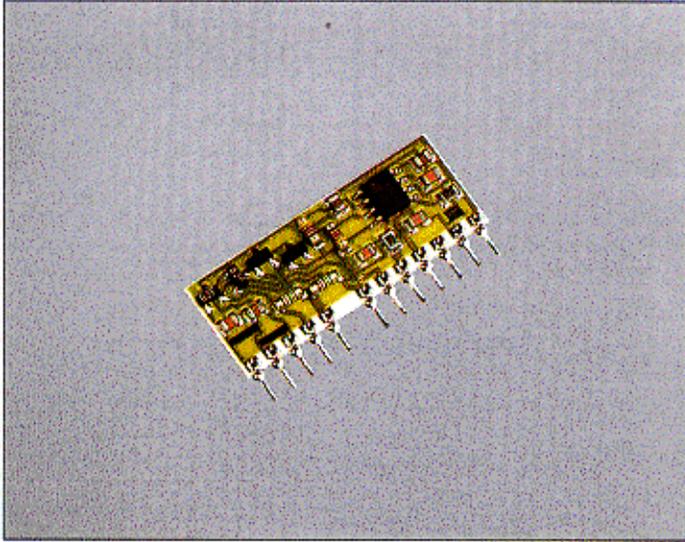




SP2

Low noise balanced input microphone preamplifier



General description

The SP2 is a high performance low noise microphone preamplifier.

Designed for professional audio mixer with very low noise channels.

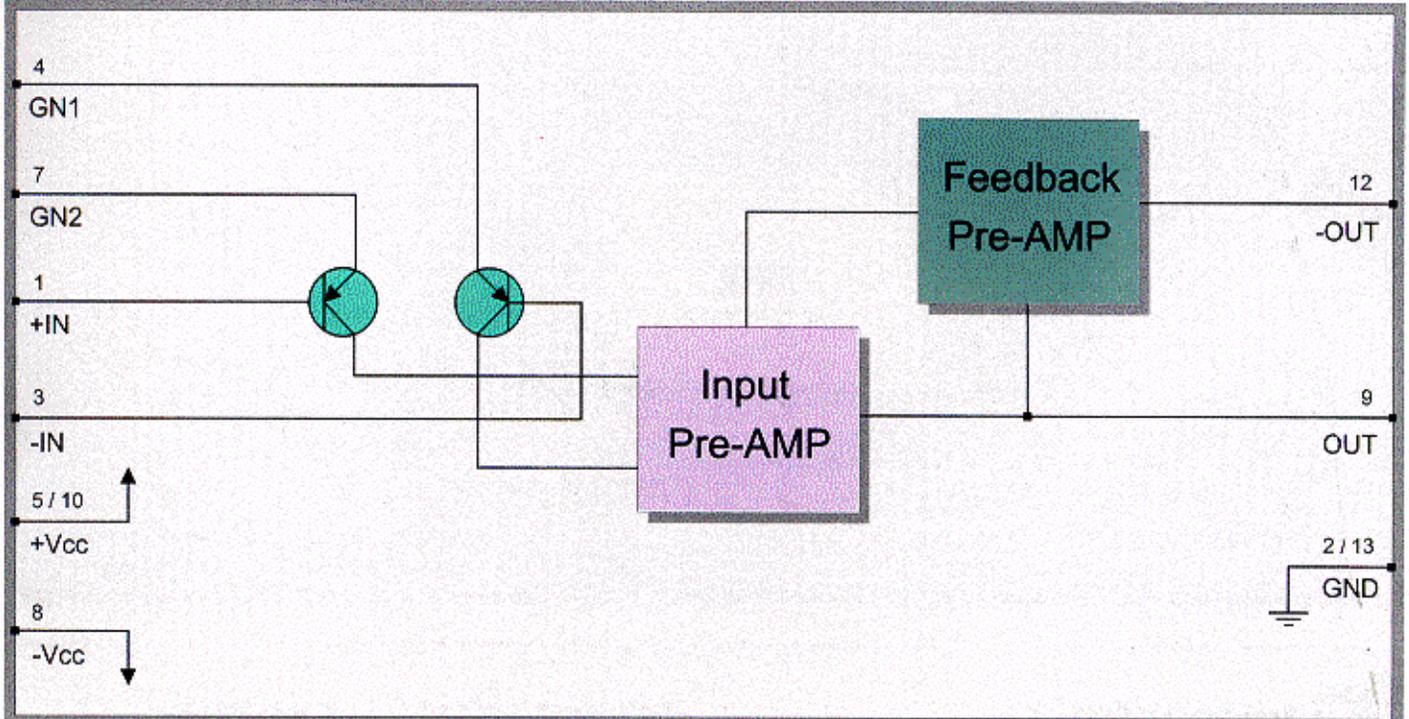
Features

- Low noise bipolar transistors and input resistors
- Input clamp diodes protection
- SIL Package
- Thick film hybrid technology

Applications

- Professional Audio Mixer
- Hi-Fi Systems
- Karaoke Systems
- Theatre and P. A. Equipments

BLOCK DIAGRAM



Electrical Characteristics

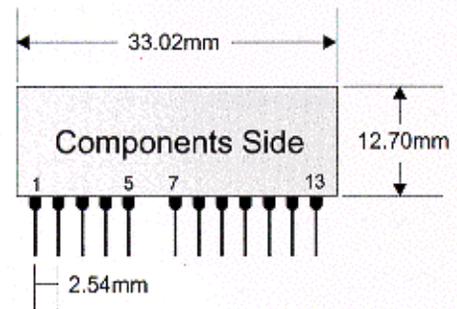
Ta = 25°C unless otherwise specified

CHARACTERISTICS	MIN	TYP	MAX	UNIT
V _{CC} Supply Voltage	±9	±12	±18	VDC
I _s Supply Current (V _{CC} = 12V)		5.5		mA
F _R Frequency response 10Hz - 100KHz			-3	dB
V _i AF Input Sensitivity		-60		dB
G _N Gain Control Range		40		dB
N _s Noise		-73		dB
O _{UT} Preamplifier Output Level		-10		dB
T _{OP} Operating Temperature Range	-20		+80	°C

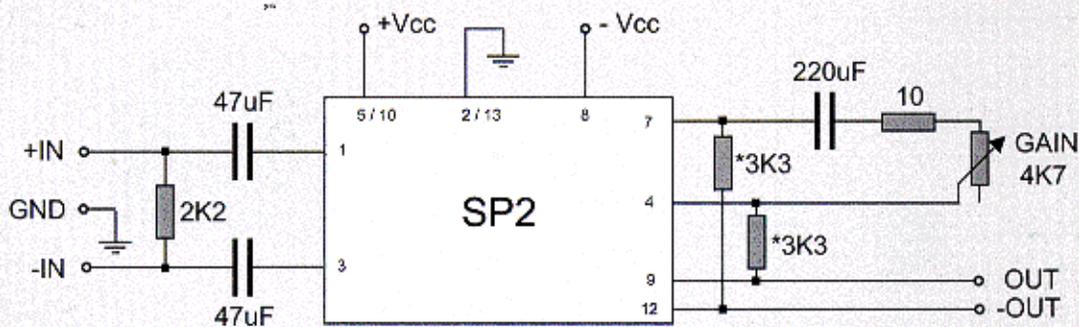
Pin Description

1	+IN	+ Input
2	GND	Ground
3	-IN	- Input
4	GN1	Gain Control
5	+VCC	Positive supply voltage
7	GN2	Gain Control
8	-VCC	Negative supply voltage
9	OUT	Output
10	+VCC	Positive supply voltage
11	NC	No connetc
12	-OUT	Inverted Output
13	GND	Ground

Mechanical Dimensions



TYPICAL APPLICATION



* Resistor value for gain setting
Component typical values



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