

SSM-2018

VOLTAGE-CONTROLLED AMPLIFIER/OVCE

Precision Monolithics in

ADVANCE PRODUCT INFORMATION

FEATURES

Improved THD and IMD over Gain and Attenuation

Low Control Feedthrough 500μV (Class AB Typ)
...... 2mV (Class A Typ)

Buffered Control Port

· Accepts Low or High Impedance Inputs

• Extended Industrial Temperature Range -40°C to +85°C

Few External Components

Low Cost

APPLICATIONS

- Mix Console Fader Automation Systems
- Compressor/Limiters
- Noise Gates
- Noise Reduction Systems
- Telephone Line Interfaces
- Surround Sound Systems
- Automatic or Remote Volume Controllers
- Voltage-Controlled Equalizers
- Voltage-Controlled Panners

ORDERING INFORMATION

PACKAGE	OPERATING
PLASTIC 16-PIN	TEMPERATURE RANGE
SSM2018P	XIND*

^{*} XIND = -40°C to +85°C

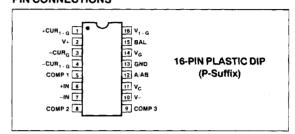
GENERAL DESCRIPTION

The SSM-2018 is a pin compatible upgrade to the SSM-2014, offering improved specifications while maintaining applications flexibility. Improvements include lower noise and lower distortion, particularly over gain and attenuation, with increased bandwidth. PMI's thin-film resistor capability results in fewer required external components than the SSM-2014.

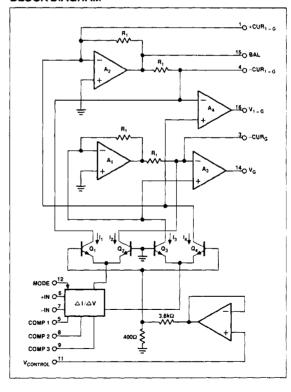
Differential inputs and outputs are provided that permit voltage or current operation. An additional feature is the SSM-2018's programmable gain core, which allows Class A, AB, intermediate, or "sliding bias" operation. As a result, the SSM-2018 is an excellent choice for all common VCA applications, as well as Operational Voltage-Controlled Element (OVCE) functions such as voltage-controlled panners and equalizers.

Combined with a PM-7524 DAC and SSM-2300 8-channel multiplexed sample-and-hold, the SSM-2018 enables the design of high performance fader automation systems with few components. The SSM-2018 and SSM-2110 can be used as the nucleus of a state-of-the-art dynamic range processor.

PIN CONNECTIONS



BLOCK DIAGRAM



This advance product information describes a product in development at the time of this printing. Final specifications may vary. Please contact local sales office or distributor for final data sheet.

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SSM AUDIO PRODUCTS