

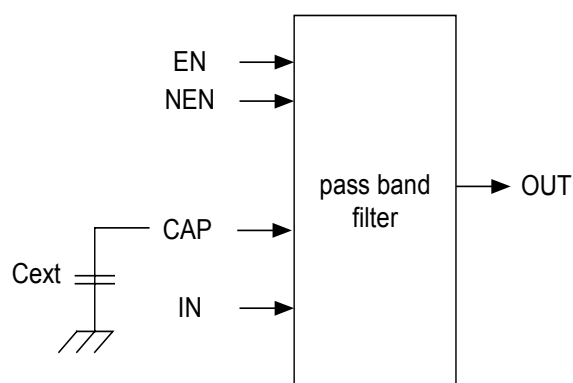
DATA SHEET

Typical Applications

→ signal filtering

Features

- Technology CMOS
- Area : 0.42 mm²
- Consumption : 1.2 mA max
- Operating supply voltage : 3 V – 5.5 V
- Power down mode
- Gain : 100
- typical cut-off frequencies : 90 Hz (Cext=100 nF) / 6.52 kHz



Pin Name	Description
EN	Power down control (active high).
NEN	Inverted power down control
CAP	external capacitor
OUT	amplifier output
VDD	High power supply
VSS	Low power supply

Product Description

The gain of this pass band filter is 100. It can be decreased by inserting a resistor between the external capacitor Cext and the CAP pin.

Low cut-off frequency is adjusted by the external capacitor

A power down mode is available

Absolute Maximum Ratings

Symbol	Parameter	Min	Typ	Max	Unit
VDD	Power supply voltage	3	5	5.5	V
Tjc	Junction temperature	0	27	60	°C
Tst	Storage temperature	-65		150	°C

DC Characteristics

Symbol	Parameter	Min	Typ	Max	Unit
VDD	High power supply	3		5.5	V
VSS	Low power supply		0		V
IDD	Supply Current	800	900	1200	μA
IDD_PD	Supply Current in power down mode			0.05	μA

AC Characteristics

Symbol	Parameter	Min	Typ	Max	Unit
F _{low}	Bandwidth low frequency (C _{ext} =100 nF)	66	90.8	122	Hz
F _{high}	Bandwidth high frequency	4.8	6.4	8.8	kHz
Gain _{1kHz}	Gain at 1kHz (without external resistor)	99.4	100.1	100.8	
Gain _{2kHz}	Gain at 2kHz (without external resistor)	93	96.8	99.6	

Block diagram

