

7-bit, Digital to Analog Converter

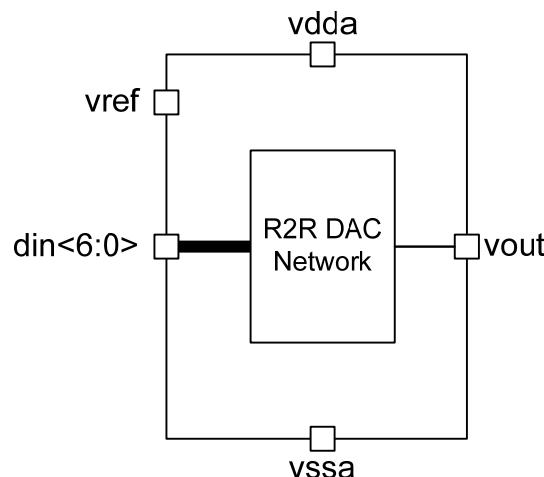
Description

The HX11DB is a 7-bit digital to analog converter. Suitable in environments up to 125°C, the DAC is optimized to provide medium accuracy conversion of low bandwidth digital signals into the analog domain.

Features

- 7-bit accuracy: ± 0.5 LSB maximum DNL
- Output range of 0V to analog supply
- 3.3V analog supply
- Extended temperature range: -40°C to 125°C
- Dimensions: 80um x 160um (0.013mm²)
- Qualified in ON Semiconductor ONC18

Block Diagram



Applications

- Calibration & tuning functions
- Control loops

Specifications

Parameter	Conditions	Min	Typ	Max	Unit
Analog Supply Voltage	$\pm 10\%$	2.97	3.3	3.63	V
Temperature Range		-40	27	125	°C
Monotonicity		7			Bits
Resolution		7			Bits
Voltage Reference				analog supply	V
Least Significant Bit	Reference voltage of 2.9V		22.66		mV
Differential Non-Linearity	Reference voltage of 2.9V	-1	± 0.5	+1	LSB
Integral Non-Linearity	Reference voltage of 2.9V	-3	± 1	+3	LSB
Output Range	Reference voltage of 2.9V	0.3		analog supply	V

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