



# ADC100

## 6-Bit 100MHz Flash ADC

The ADC100 is manufactured by Eltek Semiconductors Ltd. for use in harsh environments.

The ADC100 is a high speed, low power monolithic Flash A/D converter. Implemented in a rugged Bipolar technology the ADC100 can be cascaded using the Overflow Output to implement a high performance, cost effective, 7-bit or 8-bit A/D Converter.

The ADC100 has a guaranteed strobe frequency of 100MHz that combined with excellent linearity and outstanding analogue bandwidth permits operation up to the limit of the Nyquist theorem.

The ADC100 is pin compatible with the Siemens SDA5200 and the Micronetworks MN5904 and MN5905.

The ADC100 is available in either a 16 pin DIL side-brazed package or 20-lead Ceramic Leadless Chip Carrier.

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### KEY SPECIFICATIONS

- -55 to 125 C operation
- Strobe frequency 100MHz
- 6-bit resolution (1.6%)
- Overflow output (7<sup>th</sup> bit) and simultaneous blocking of the remaining outputs (ADC100N) allows simple cascading for 7-bit or 8-bit A/D converters
- Broad analogue bandwidth (140MHz typ)
- High slew rate (typ. 0.5V/ns)
- Processing analogue signals to Nyquist Limit
- $\pm 0.5$  LSB max. linearity error
- No sample and hold necessary
- Power dissipation typ. 550mW
- ECL compatible
- Logic compatible supplies +5v; -5.2V
- Low cost plastic packaged option on request

### PART NUMBERS AVAILABLE

