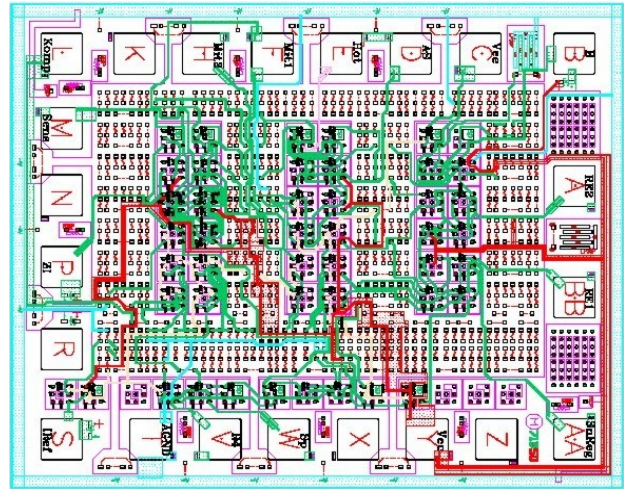


ZETEX 700 Series

The ZETEX 700 line of bipolar analog arrays offers a quick and cost-effective route for integration of analog electronics. A wide range of sizes, each being approximately 30% larger than the next smaller, allows for the well-matched integration of different complexities. In addition, a limited amount of digital gates may be integrated, too. Typical application fields for the ZETEX 700 series are sensor signal amplification, analog signal processing, or analog control tasks.

The ZETEX 700 series provides blocks of 12 transistors, 10 of which are convertible from npn to pnp and a further 2 Schottky transistors. The blocks are surrounded by a field of diffusion resistors. Located between the bond pads are large drive transistors (nnp/pnp), pinch resistors acting as current sources, and junction capacitors.

Customization of the array is achieved by patterning a single metal layer. Cross-under resistors are provided throughout the chip to ease routing.



ZETEX 713 Gate Array

ZETEX 700 Series	710	711	712	713	723	724	734	736	747
Pads	4	8	17	22	25	30	30	41	48
Npn/pnp transistors	14	22	27	39	60	80	120	180	280
Large npn/pnp transistors	1/0	1/1	1/1	2/2	3/3	4/3	9/6	5/4	9/5
Diffusion resistors 750 Ohm	120	190	210	411	635	895	1268	1735	2439
Junction capacitors	1	2	2	4	7	7	9	12	10
Max. supply voltage	20V	20V	20V	20V	20V	20V	20V	20V	20V

Your competitive edge with ZETEX 700

- Low NRE cost (only one customized mask)
- Available in *small*, medium and large quantities
- No deadlines as with MPW (multiple-project-wafers)
- Short design times; extensive library of circuits available
- Low risk approach (components have to be "only" connected, last-minute enhancements possible through unused components)
- Strong current drive with large npn/pnp transistors
- Lower flicker noise than in CMOS technologies
- Robustness - lower ESD and latchup sensitivity than in CMOS technologies
- Max. supply voltage 20V

Packages

- Plastic DIL, plastic SO, ceramic DIL, chip size packages
- Further packages on request

Application fields

- Sensor signal conditioning
- Audio amplification filtering
- Telecommunication
- Automation & control
- Motor control