

Construction element	Materials	CAS if applicable	Average mass [%]	Sum [%]	Mass [mg]	ppm
Chip	Silicon	7440-21-3	4.26	4.26	0.232	42569
Leadframe	Iron	7439-89-6	12.90	23.19	0.703	129067
	Nickel	7440-02-0	9.74		0.531	97409
	Chromium	7440-47-3	0.06		0.0032	580
	Cobalt	7440-48-4	0.23		0.0126	2319
	Manganese	7439-96-5	0.19		0.0101	1855
	Silicon	7440-21-3	0.07		0.0038	696
Leadframe plating	Silver	7440-22-4	0.55	0.55	0.030	5505
Wires	Gold wire	7440-57-5	0.28	0.28	0.015	2752
Encapsulation	Epoxy Cresol Novolac	29690-82-2	10.48	67.57	0.571	104771
	Phenol Novolac	9003-35-4	5.25		0.286	52477
	Silica	60676-86-0	49.99		2.725	500000
	Antimony oxide	1309-64-4	1.36		0.074	13578
	Carbon Black	1333-86-4	0.17		0.009	1651
	TBBP-A	79-94-7	0.33		0.018	3303
Lead finish	Matte Tin	7440-31-5	4.16	4.16	0.227	41651
Sum in Total:				100.00	5.45	

Fluctuation margin: +/-10%

This environmental data is based on information provided by our suppliers; we believe it to be correct but do not routinely validate it by measurement.

The information is for guidance only, and Zetex does not guarantee its absolute accuracy or completeness.

The active part of each device is a silicon chip doped at atomic levels (some tens of ppb) with Phosphorus, Boron and Arsenic. The back of the die is raw or metallised with thin layers of Titanium, Nickel, Silver or Gold in order to enhance the die bonding to the header or leadframe. These and other substances are not reported as being present in Zetex products where their concentration is less than 20ppm, as they are not considered detectable by normal analytical methods.

The Company reserves the right to alter without notice the specification, design, price or conditions of supply of any product or service.

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