

Construction element	Material group	Materials	CAS (where available)	Average mass (%)	Sum (%)	Mass (mg)	ppm
Chip	Silicon	Silicon	7440-21-3	5.14	5.14	0.070	51400
Leadframe	Iron/Nickel Alloy	Iron	7439-89-6	17.65	32.31	0.242	176466
		Nickel	7440-02-0	13.32		0.182	133182
		Chromium	7440-47-3	0.08		0.0011	793
		Cobalt	7440-48-4	0.32		0.0043	3171
		Manganese	7439-96-5	0.25		0.0035	2537
		Silicon	7440-21-3	0.10		0.0013	951
		Silver	7440-22-4	0.60		0.008	5990
Wires	Gold wire	Gold wire	7440-57-5	0.45	0.45	0.006	4540
Encapsulation	Epoxy Resin	Epoxy Cresol Novolac	29690-82-2	3.09	60.61	0.042	30911
		Phenol Novolac	9003-35-4	8.79		0.120	87885
		Silica	60676-86-0	42.73		0.585	427301
		Antimony oxide	1309-64-4	3.09		0.042	30911
		Carbon Black	1333-86-4	0.18		0.002	1818
		Not disclosed	-	2.73		0.037	27275
Lead finish	Matte Tin	Tin	7440-31-5	1.48	1.48	0.020	14831
Sum in Total:					100.00	1.37	

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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