

Construction element	Material group	Materials	CAS (where available)	Average mass (%)	Sum (%)	Mass (mg)	ppm
Die Composition	Silicon	Silicon	7440-21-3	8.16	8.16	0.400	81633
Leadframe	Iron	Iron/Nickel Alloy	7439-89-6	17.27	31.09	0.846	172685
	Nickel		7440-02-0	13.03		0.639	130329
	Chromium		7440-47-3	0.08		0.0038	776
	Cobalt		7440-48-4	0.31		0.0152	3103
	Manganese		7439-96-5	0.25		0.0122	2482
	Silicon		7440-21-3	0.09		0.0046	931
	Silver		7440-22-4	0.06		0.003	620
Wires	Gold	Gold	7440-57-5	1.02	1.02	0.050	10204
Encapsulation	Resin	Filled epoxy	-	14.26	58.91	0.699	142562
	Silica		7631-86-9	41.41		2.029	414137
	Carbon Black		1333-86-4	0.77		0.038	7658
	Amine Compound		-	0.77		0.038	7658
	Antimony oxide		1309-64-4	1.71		0.084	17084
Lead finish	Tin	Sn=100	7440-31-5	0.82	0.82	0.040	8163
Sum in Total:					100.00	4.90	

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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