



Material Content Data Sheet



Halogen-Free

Sales Product Name	IKZ50N65ES5	Issued	05. April 2021
MA#	MA001637680		
Package	PG-TO247-4-1	Weight*	6168.53 mg

Construction Element	Material Group	Substances	CAS# if applicable	Weight [mg]	Average Mass [%]	Sum [%]	Average Mass [ppm]	Sum [ppm]
chip_1	inorganic material	silicon	7440-21-3	2.667	0.04	0.04	432	432
chip_2	inorganic material	silicon	7440-21-3	2.181	0.04	0.04	354	354
leadframe	inorganic material	phosphorus	7723-14-0	0.867	0.01		141	
	non noble metal	iron	7439-89-6	2.890	0.05		468	
	non noble metal	copper	7440-50-8	2,885.760	46.78	46.84	467820	468429
wire	non noble metal	aluminium	7429-90-5	17.213	0.28	0.28	2791	2791
encapsulation	organic material	carbon black	1333-86-4	20.035	0.32		3248	
	plastics	epoxy resin	-	380.656	6.17		61709	
	inorganic material	silicondioxide	60676-86-0	1,602.760	25.98	32.47	259828	324785
leadfinish	non noble metal	tin	7440-31-5	23.087	0.37	0.37	3743	3743
plating	non noble metal	nickel	7440-02-0	1.945	0.03	0.03	315	315
solder	non noble metal	antimony	7440-36-0	0.396	0.01		64	
	noble metal	silver	7440-22-4	0.990	0.02		160	
	non noble metal	tin	7440-31-5	2.574	0.04	0.07	417	641
heatspreader	inorganic material	phosphorus	7723-14-0	0.367	0.01		60	
	non noble metal	iron	7439-89-6	1.225	0.02		199	
	non noble metal	copper	7440-50-8	1,222.919	19.83	19.86	198251	198510
*deviation	< 10%	Sum in total:				100.00		1000000

Important Remarks:

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This product is in compliance with EU Directive 2015/863/EU amending Annex II to EU Directive 2011/65/EU (RoHS) and does not use any exemption.

Company	Infineon Technologies AG
Address	81726 Neubiberg
Internet	www.infineon.com