



Material Content Data Sheet



Halogen-Free

Sales Product Name	IKB40N65ES5	Issued	24. February 2022
MA#	MA005708545		
Package	PG-TO263-3-2	Weight*	1563.01 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	1.801	0.12	0.12	1152	1152
chip_2	inorganic material	silicon	7440-21-3	2.235	0.14	0.14	1430	1430
leadframe	inorganic material	phosphorus	7723-14-0	0.091	0.01		58	
	non noble metal	iron	7439-89-6	0.304	0.02		195	
	non noble metal	copper	7440-50-8	304.026	19.45	19.48	194514	194767
wire	non noble metal	aluminium	7429-90-5	11.594	0.74	0.74	7418	7418
encapsulation	inorganic material	zinc oxide	1314-13-2	6.799	0.44		4350	
	miscellaneous	miscellaneous	-	27.197	1.74		17401	
	plastics	epoxy resin	-	101.989	6.53		65252	
	inorganic material	silicon dioxide	60676-86-0	543.942	34.80	43.51	348011	435014
lead finish	non noble metal	tin	7440-31-5	9.657	0.62	0.62	6178	6178
plating	inorganic material	phosphorus	7723-14-0	0.001			1	
	non noble metal	nickel	7440-02-0	0.228	0.01	0.01	146	147
solder	non noble metal	tin	7440-31-5	0.095	0.01		61	
	noble metal	silver	7440-22-4	0.119	0.01		76	
	non noble metal	lead	7439-92-1	4.550	0.29	0.31	2911	3048
heatspreader	inorganic material	phosphorus	7723-14-0	0.165	0.01		105	
	non noble metal	iron	7439-89-6	0.548	0.04		351	
	non noble metal	copper	7440-50-8	547.666	35.02	35.07	350390	350846
*deviation	< 10%				Sum in total:	100.00		1000000

Important Remarks:

1. Infineon Technologies AG provides full material declaration based on information provided by third parties and has taken and continues to take reasonable steps to provide representative and accurate information.
2. Infineon Technologies AG and Infineon Technologies AG suppliers consider certain information to be proprietary, and thus CAS numbers and other limited information may not be available for release.
3. All statements are based on our present knowledge, are provided 'as is' and may be subject to change at any time due to technical requirements and development without notification.

This product is in compliance with EU Directive 2015/863/EU amending Annex II to EU Directive 2011/65/EU (RoHS) and contains Pb according RoHS exemption 7a, Lead in high melting temperature type solders.

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