



Material Content Data Sheet



Halogen-Free

Sales Product Name IPA65R045C7

Issued

14. February 2022

MA# MA005621401

Package PG-TO220-3-313

Weight*

2201.54 mg

Construction Element	Material Group	Substances	CAS# if applicable	Weight [mg]	Average Mass [%]	Sum [%]	Average Mass [ppm]	Sum [ppm]
chip	inorganic material	silicon	7440-21-3	15.501	0.70	0.70	7041	7041
leadframe	inorganic material	phosphorus	7723-14-0	0.271	0.01		123	
	non noble metal	iron	7439-89-6	0.903	0.04		410	
	non noble metal	copper	7440-50-8	902.149	40.98	41.03	409781	410314
wire	non noble metal	aluminium	7429-90-5	10.874	0.49	0.49	4939	4939
encapsulation	organic material	carbon black	1333-86-4	2.353	0.11		1069	
	plastics	epoxy resin	-	210.227	9.55		95491	
	inorganic material	silicondioxide	60676-86-0	898.188	40.80	50.46	407981	504541
leadfinish	non noble metal	tin	7440-31-5	7.877	0.36	0.36	3578	3578
plating	non noble metal	nickel	7440-02-0	1.656	0.08	0.08	752	752
solder	non noble metal	antimony	7440-36-0	0.648	0.03		294	
	noble metal	silver	7440-22-4	1.619	0.07		736	
	non noble metal	tin	7440-31-5	4.210	0.19	0.29	1913	2943
heatspreader	inorganic material	phosphorus	7723-14-0	0.044			20	
	non noble metal	iron	7439-89-6	0.145	0.01		66	
	non noble metal	copper	7440-50-8	144.874	6.58	6.59	65806	65892
*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