



## Material Content Data Sheet



Halogen-Free

**Sales Product Name** IPA50R250CP

**Issued**

09. February 2022

**MA#** MA005619008

**Package** PG-TO220-3-313

**Weight\***

2206.63 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	7.183	0.33	0.33	3255	3255
leadframe	inorganic material	phosphorus	7723-14-0	0.271	0.01		123	
	non noble metal	iron	7439-89-6	0.903	0.04		409	
	non noble metal	copper	7440-50-8	902.149	40.88	40.93	408836	409368
wire	non noble metal	aluminium	7429-90-5	3.693	0.17	0.17	1674	1674
encapsulation	organic material	carbon black	1333-86-4	2.317	0.10		1050	
	plastics	epoxy resin	-	213.750	9.69		96867	
	inorganic material	silicondioxide	60676-86-0	918.140	41.59	51.38	416083	514000
leadfinish	non noble metal	tin	7440-31-5	7.877	0.36	0.36	3570	3570
plating	non noble metal	nickel	7440-02-0	1.656	0.08	0.08	750	750
solder	non noble metal	antimony	7440-36-0	0.362	0.02		164	
	noble metal	silver	7440-22-4	0.906	0.04		411	
	non noble metal	tin	7440-31-5	2.356	0.11	0.17	1068	1643
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	6.57	6.58	65654	65740
*deviation	< 10%	Sum in total:				100.00		1000000

### Important Remarks:

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