



## Material Content Data Sheet



Halogen-Free

<b>Sales Product Name</b>	IPA60R160P6	<b>Issued</b>	31. March 2021
<b>MA#</b>	MA001371732		
<b>Package</b>	PG-TO220-3-313	<b>Weight*</b>	2204.78 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	9.747	0.44	0.44	4421	4421
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	40.92	40.97	409178	409711
wire	non noble metal	aluminium	7429-90-5	3.641	0.17	0.17	1651	1651
encapsulation	organic material	carbon black	1333-86-4	2.332	0.11		1058	
	plastics	epoxy resin	-	213.027	9.66		96620	
	inorganic material	silicondioxide	60676-86-0	913.571	41.43	51.20	414359	512037
leadfinish	non noble metal	tin	7440-31-5	7.877	0.36	0.36	3573	3573
plating	non noble metal	nickel	7440-02-0	1.656	0.08	0.08	751	751
solder	non noble metal	antimony	7440-36-0	0.455	0.02		206	
	noble metal	silver	7440-22-4	1.136	0.05		515	
	non noble metal	tin	7440-31-5	2.955	0.13	0.20	1340	2061
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	65709	65795
*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