



## Material Content Data Sheet



<b>Sales Product Name</b>		IPA60R380P6		<b>Issued</b>		6. July 2015		
<b>MA#</b>		MA001371260						
<b>Package</b>		PG-TO220-3-313		<b>Weight*</b>		2210.61 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	4.522	0.20	0.20	2046	2046
leadframe	non noble metal	iron	7439-89-6	0.903	0.04		409	
	inorganic material	phosphorus	7723-14-0	0.271	0.01		123	
	non noble metal	copper	7440-50-8	902.149	40.81	40.86	408099	408631
wire	non noble metal	aluminium	7429-90-5	0.756	0.03	0.03	342	342
encapsulation	organic material	carbon black	1333-86-4	2.302	0.10		1041	
	plastics	epoxy resin	-	215.331	9.74		97408	
	inorganic material	silicondioxide	60676-86-0	927.054	41.95	51.79	419365	517814
leadfinish	non noble metal	tin	7440-31-5	7.975	0.36	0.36	3608	3608
plating	non noble metal	nickel	7440-02-0	1.676	0.08	0.08	758	758
solder	non noble metal	antimony	7440-36-0	0.261	0.01		118	
	noble metal	silver	7440-22-4	0.652	0.03		295	
	non noble metal	tin	7440-31-5	1.694	0.08	0.12	766	1179
heatspreader	non noble metal	iron	7439-89-6	0.145	0.01		66	
	inorganic material	phosphorus	7723-14-0	0.044	0.00		20	
	non noble metal	copper	7440-50-8	144.874	6.55	6.56	65536	65622
*deviation	< 10%				Sum in total:	100.00		1000000

### Important Remarks:

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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 2011/65/EU (RoHS) and does not use any exemption.

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