



## Material Content Data Sheet



<b>Sales Product Name</b>		IPA60R230P6		<b>Issued</b>		17. April 2015		
<b>MA#</b>		MA001356050						
<b>Package</b>		PG-TO220-3-111		<b>Weight*</b>		2240.38 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	6.823	0.30	0.30	3046	3046
leadframe	non noble metal	iron	7439-89-6	0.687	0.03		307	
	inorganic material	phosphorus	7723-14-0	0.206	0.01		92	
	non noble metal	copper	7440-50-8	686.221	30.63	30.67	306297	306696
wire	non noble metal	aluminium	7429-90-5	2.660	0.12	0.12	1187	1187
encapsulation	organic material	carbon black	1333-86-4	2.245	0.10		1002	
	plastics	epoxy resin	-	207.164	9.25		92468	
	inorganic material	silicondioxide	60676-86-0	889.864	39.71	49.06	397192	490663
leadfinish	non noble metal	tin	7440-31-5	8.041	0.36	0.36	3589	3589
plating	non noble metal	nickel	7440-02-0	0.305	0.01		136	
	inorganic material	phosphorus	7723-14-0	0.001	0.00	0.01	1	136
solder	non noble metal	antimony	7440-36-0	0.349	0.02		156	
	noble metal	silver	7440-22-4	0.872	0.04		389	
	non noble metal	tin	7440-31-5	2.268	0.10	0.16	1013	1558
heatspreader	non noble metal	iron	7439-89-6	0.433	0.02		193	
	inorganic material	phosphorus	7723-14-0	0.130	0.01		58	
	non noble metal	copper	7440-50-8	432.110	19.29	19.32	192874	193125
*deviation	< 10%				Sum in total:	100.00		1000000

### Important Remarks:

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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